

**BEFORE THE TENNESSEE REGULATORY AUTHORITY  
NASHVILLE, TENNESSEE**

**IN RE:**

**PETITION OF CHATTANOOGA  
GAS COMPANY FOR APPROVAL  
OF ADJUSTMENT OF ITS RATES  
AND CHARGES AND REVISED TARIFF )**

**DOCKET NO. 04-00034**

**ATTACHMENT TO  
GAS TECHNOLOGY INSTITUTE'S RESPONSES TO  
CHATTANOOGA GAS COMPANY'S  
DATA REQUEST NO. 8**

**Company Allocation Form (for 2003)**Company Name: Brownsville UtilitiesCompany Address: P.O. Box 424, Brownsville, TN 38012Customer Name: John Sharpe Title: Gen MgrSignature: [Signature] Date: 12-2-02Phone: 731-772-8845 FAX: 731-772-8811 Email: jsharpe@budutil.comEstimated 2003 Non-FERC Funding \$U.S. 4500.00

Other Sources (please specify) \_\_\_\_\_ \$U.S. \_\_\_\_\_

Please indicate the amount of non-FERC funding for 2003 that your company wishes to allocate among the following R&D investment options. Collaborative Programs are subject to minimum allocations.

**Investment Options (indicate allocation for each)**

2003 GTI Collaborative Programs (formerly Mutual Funds<sup>SM</sup>) (anchor, principal, and minimum investor levels, per year, unless otherwise noted)

**End Use**

- ✓ Industrial Gas Technical Advisor Phase III (\$50,000) \$U.S. \_\_\_\_\_
- ✓ Residential/Commercial Customer Opportunities (\$200,000, \$100,000, \$25,000, all for a two-year commitment) \_\_\_\_\_
- ✓ Identifying Opportunities in Distributed Generation Markets (\$300,000 two-year commitment, \$60,000, \$30,000) \_\_\_\_\_

**Operations**

- ✓ Utility Security: Issues and Implementation (\$250,000, \$50,000, -) \_\_\_\_\_
- ✓ Cost Savings for Energy Utilities (\$250,000, -, \$50,000) \_\_\_\_\_

**Environmental/Renewables**

- ✓ Advanced Sediments Management (\$150,000) \_\_\_\_\_
- ✓ Biomass Gasification for Renewable Applications (\$200,000, \$100,000, \$50,000) \_\_\_\_\_

**Other Options**

- GTI 2003 SMP Program (Contact Vince Fiore, GTI for dollar level) \_\_\_\_\_
- Custom Technical Projects Subject(s): \_\_\_\_\_
- Public Gas R&D Investment Pool (Contact Chns Flood, GTI/APGA for details) add money in Pool \_\_\_\_\_
- Place in my company's hold account for future designations \_\_\_\_\_

Total

Please return this completed form (FAX preferred) to:

\$U.S. \_\_\_\_\_

**Ron Edelstein**

Director, Sales

GTI

1700 South Mount Prospect Road  
Des Plaines, IL 60018

Phone: (847) 768-0898

FAX: (847) 768-0501

E-mail: ron.edelstein@gastechnology.org

# Brownsville Utility Department

P O Box 424 - 25 N Lafayette Ave - Brownsville, TN 38012

1 of 2 PAGES

TO: Bon Edelstein

PHONE:

FAX: 847-768-0501

FROM: John Sharpe

PHONE: 731-772-8845 FAX: 731-772-8811

NOTES:

**Gertrudo Lao**

05/21/2003 09:18 AM

To: Ron Edelstein/GTI@GTI, Chris Flood/GTI@GTI  
cc:  
Subject: JACKSON ENERGY AUTHORITY

The sum of \$155,000 was credited to our account with BofA as Jackson Energy's contribution for 2001 and 2002.

**Company Allocation Form (for 2003)**Company Name: Jackson Energy AuthorityCompany Address: P O Box 68, Jackson, TN 38302-0068Customer Name: Charles W Crockarell Title: Sr. Vice President, Gas DivisionSignature:  Date: April 30, 2003Phone: 731.422.7206 FAX: 731.422.7221 Email: ccrockarell@jaxenergy.comEstimated 2003 Client Funding \$U.S. \$83,000.00Other Sources (please specify) \$U.S. \_\_\_\_\_

Please indicate the amount of client funding for 2003 that your company wishes to allocate among the following R&amp;D investment options. Collaborative Programs are subject to minimum allocations.

**Investment Options (Indicate allocation for each)****2003 GTI Collaborative Programs (formerly Mutual Funds<sup>SM</sup>) (anchor, principal, and minimum investor levels for a two-year commitment, unless otherwise noted)**

- ☒ Gas Technical Advisor Phase III (\$50,000) \$U.S. \_\_\_\_\_
- ☒ Residential/Commercial Customer Opportunities  
(\$200,000, \$100,000, \$25,000) \_\_\_\_\_
- ☒ Identifying Opportunities in Distributed Energy Markets (\$300,000, \$120,000, \$60,000) \_\_\_\_\_
- ☒ Cooling Solutions (\$100,000, -, \$50,000) \_\_\_\_\_
- ☒ Utility Security: Issues and Implementation (\$200,000, -, \$50,000) \_\_\_\_\_
- ☒ Near-Term Cost Savings for Energy Utilities (\$250,000, -, \$50,000) \_\_\_\_\_
- ☒ Advanced Sediments Management (\$150,000) \_\_\_\_\_
- ☒ Biomass Gasification for Renewable Applications (\$400,000, \$200,000, \$100,000) \_\_\_\_\_
- ☒ Metropolitan Renewable Energy (\$250,000, \$100,000, \$50,000) \_\_\_\_\_

**2003 GTI Collaborative Projects (formerly called GTI Select<sup>SM</sup>)**

- ☒ Benchmarking MGP Costs & Management Practices (\$35,000) \_\_\_\_\_

**Other Options**

- ☐ GTI 2003 SMP Emerging Technology (Contact Vince Fiore GTI for dollar level) \_\_\_\_\_
- ☐ Operations Technology Development (Contact Vince Fiore GTI for dollar level) \_\_\_\_\_
- ☐ Operator Qualifications (Contact your Strategic Account Manager) \_\_\_\_\_
- ☐ Public Gas Investment Pool (Contact Chris Flood GTI/APGA for dollar level) \$83,000.00
- ☐ Please put in my company's hold account for future investment \_\_\_\_\_

**Total** \$U.S. \$83,000.00

Please return this completed form (FAX preferred) to:

**Ron Edelstein**  
Director, State Regulatory Programs  
GTI  
1700 South Mount Prospect Road  
Des Plaines, IL 60018

Phone: 847/768-0898  
FAX: 847/768-0501  
E-mail: ron.edelstein@gastechnology.org

**Company Allocation Form (for 2003)**Company Name: Jackson Energy AuthorityCompany Address: P O Box 68, Jackson, TN 38302-0068Customer Name: Charles W Crockarell Title: Sr. Vice President, Gas DivisionSignature:  Date: April 30, 2003Phone: 731.422.7206 FAX: 731.422.7221 Email: ccrockarell@jaxenergy.comEstimated 2003 Client Funding \$U.S. \$83,000.00Other Sources (please specify) \_\_\_\_\_ \$U.S. \_\_\_\_\_

Please indicate the amount of client funding for 2003 that your company wishes to allocate among the following R&amp;D investment options. Collaborative Programs are subject to minimum allocations.

**Investment Options (indicate allocation for each)****2003 GTI Collaborative Programs (formerly Mutual Funds<sup>SM</sup>) (anchor, principal, and minimum investor levels for a two-year commitment, unless otherwise noted)**

- ✓ Gas Technical Advisor Phase III (\$50,000) \$U.S. \_\_\_\_\_
- ✓ Residential/Commercial Customer Opportunities  
(\$200,000, \$100,000, \$25,000) \_\_\_\_\_
- ✓ Identifying Opportunities in Distributed Energy Markets (\$300,000, \$120,000, \$60,000) \_\_\_\_\_
- ✓ Cooling Solutions (\$100,000, --, \$50,000) \_\_\_\_\_
- ✓ Utility Security: Issues and Implementation (\$200,000, --, \$50,000) \_\_\_\_\_
- ✓ Near-Term Cost Savings for Energy Utilities (\$250,000, --, \$50,000) \_\_\_\_\_
- ✓ Advanced Sediments Management (\$150,000) \_\_\_\_\_
- ✓ Biomass Gasification for Renewable Applications (\$400,000, \$200,000, \$100,000) \_\_\_\_\_
- ✓ Metropolitan Renewable Energy (\$250,000, \$100,000, \$50,000) \_\_\_\_\_

**2003 GTI Collaborative Projects (formerly called GTI Select<sup>SM</sup>)**

- ✓ Benchmarking MGP Costs & Management Practices (\$35,000) \_\_\_\_\_

**Other Options**

- GTI 2003 SMP Emerging Technology (Contact Vince Fiore GTI for dollar level) \_\_\_\_\_
- Operations Technology Development (Contact Vince Fiore GTI for dollar level) \_\_\_\_\_
- Operator Qualifications (Contact your Strategic Account Manager) \_\_\_\_\_
- Public Gas Investment Pool (Contact Chris Flood GTI/APGA for dollar level) \$83,000.00
- Please put in my company's hold account for future investment \_\_\_\_\_

**Total** \$U.S. \$83,000.00

Please return this completed form (FAX preferred) to:

**Ron Edelstein**  
 Director, State Regulatory Programs  
 GTI  
 1700 South Mount Prospect Road  
 Des Plaines, IL 60018

Phone: 847/768-0898  
 FAX: 847/768-0501  
 E-mail: ron.edelstein@gastechnology.org



## FAX TRANSMITTAL

Jackson Energy Authority

April 30, 2003

(Date)

To: Ron EdelsteinDirector, State Regulatory ProgramsCompany: GTIFAX No.: (847) 768-0501From: Charlie CrockarellTelephone: (731) 422-7208FAX No.: (731) 422-7221Pages sent (including this sheet): 2*M E S S A G E*



Chris Flood

04/30/2003 09:22 AM

To: Ron Edelstein/GTI@GTI

cc:

Subject: RE: 2001-2002 GTI Research and Development Commitment

Chris Flood  
APGA/GTI  
11094-D Lee Hwy  
Suite 102  
Fairfax, VA 22030  
(703) 352-3890  
(703) 352-1271 fax  
(703) 407-0974 mobile

----- Forwarded by Chris Flood/GTI on 04/30/2003 10:23 AM -----



Charlie Crockarell  
<ccrockarell@jaxenerg  
y.com>

04/30/2003 10:16 AM

To: "chris.flood@gastechnology.org" <chris.flood@gastechnology.org>

cc:

Subject: RE: 2001-2002 GTI Research and Development Commitment

I did receive the two invoices and a check is in the mail.....  
I returned the 2003 form to Ron Edelstein for a committment of  
\$83,000. Please send me an invoice at year end.

-----Original Message-----

From: chris.flood@gastechnology.org  
[mailto:chris.flood@gastechnology.org]  
Sent: Wednesday, April 30, 2003 8:43 AM  
To: Charlie Crockarell  
Subject: RE: 2001-2002 GTI Research and Development Commitment

Good Morning!

I wanted to follow-up to ensure that you have received the invoices  
for 2001 and 2002 from GTI. Let me know if you have not received them and I  
will follow-up with them. Your continued support of GTI R&D is greatly  
appreciated and we look forward to your participation again this year. I  
have attached a copy of the 2003 allocation form for you to complete for  
participation this year. In accordance with your request below we will  
invoice you in December 2003 unless otherwise instructed.

Thanks again and I hope to see you in Portland, Maine at the APGA  
Annual!

(See attached file: 2003 Allocation Form\_rev 16\_3-28-03.pdf)

Chris Flood  
APGA/GTI  
11094-D Lee Hwy  
Suite 102  
Fairfax, VA 22030  
(703) 352-3890  
(703) 352-1271 fax  
(703) 407-0974 mobile

Charlie

Crockarell

To:



"'chris.flood@gastechnology.org'" <chris.flood@gastechnology.org>

<ccrockarell@jaxe

cc:

nergy.com>

Subject: RE: 2001-2002 GTI

Research and Development Commitment

03/17/2003 10:03

AM

Send me separate invoices for the 2001 and 2002 commitment and I will pay both at this time. In the future send me an invoice annually.

-----Original Message-----

From: chris.flood@gastechnology.org

[mailto:chris.flood@gastechnology.org]

Sent: Friday, March 14, 2003 10:40 AM

To: ccrockarell@jaxenergy.com

Subject: 2001-2002 GTI Research and Development Commitment

Good Morning Charlie,

As a follow-up to the recent GTI Municipal Gas System Advisory Committee, I have been tasked to follow-up with those companies maintaining an outstanding 2001-2002 Mutual Fund/Public Gas Investment Pool balance. At this time GTI records indicate an outstanding balance with Jackson Energy Authority in the amount of \$155,000. This balance is based on the allocation form received in April 2001 specifying \$155,000 (\$75,000 and \$80,000 for 2001& 2002 respectively) for investment in the Public Gas Investment Pool.

GTI appreciates and values your commitment and support of GTI R&D over the years and looks forward to working with you to resolve this issue.

Possible options for resolution include sending an invoice for the total balance due or resolving over the course of this year on a periodic basis e.g. monthly, quarterly.

Thank you for your time and attention to this matter.

Chris Flood

APGA/GTI

11094-D Lee Hwy

Suite 102

Fairfax, VA 22030

(703) 352-3890

(703) 352-1271 fax

\*\*\*\*\*

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**Company Allocation Form (for 2004)**

Company Name: Memphis Light, Gas & Water  
 Company Address: P.O. Box 430 Memphis, TN 38101  
 Customer Name: Wade Stinson Title: VP, Constr. & Maint.

Signature: [Signature] Date: 12/8/03  
 Phone: 901-528-4136 FAX: 901-528-4086 Email: WStinson@mlgw.org  
 Estimated 2004 Client Funding \$U.S. 200,000  
 Other Sources (please specify) \_\_\_\_\_ \$U.S. \_\_\_\_\_

Please indicate the amount of client funding for 2004 that your company wishes to allocate among the following R&D investment options. Collaborative Programs are subject to minimum allocations.

**Investment Options (indicate allocation for each)**

**2004 GTI Collaborative Programs (formerly Mutual Funds<sup>SM</sup>) (anchor, principal, and minimum investor levels for a two-year commitment, unless otherwise noted)**

✓ None at this time *Identifying Opportunities in Distributed Generation Markets* \$60,000 *Already Created*

**2004 GTI Collaborative Projects (formerly called GTI Select<sup>SM</sup>)**

- ✓ Pipeline Integrity Management Phase II: ECDA Situations (\$10,000) \_\_\_\_\_
- ✓ Pipeline Integrity Management Phase III: Internal Corrosion (\$10,000) \_\_\_\_\_
- ✓ Benchmarking MGP Costs & Management Practices (\$35,000) \_\_\_\_\_
- ✓ Ergonomics Handbook and Tool Development (\$24,000) \_\_\_\_\_
- ✓ Interchangeability of International LNG with Domestic U.S. Pipeline Natural Gas \_\_\_\_\_  
 (Contact your Strategic Account Manager for dollar level)

**Other Options**

- GTI 2004 SMP Emerging Technology (Contact Vince Fiore GTI for dollar level) \$40,000
- Operations Technology Development (Contact Vince Fiore GTI for dollar level) \_\_\_\_\_
- Operator Qualifications (Contact your Strategic Account Manager for dollar level) \_\_\_\_\_
- Combination Space/Water Heater Field Test (\$125,000 for 5 units, \$175,000 for 10) \_\_\_\_\_
- Public Gas Investment Pool (Contact Chris Flood GTI/APGA for dollar level) \$40,000 ✓
- Please put in my company's hold account for future investment \$60,000

**Total** \$U.S. 200,000

*\* See 2003 Allocation form; this is 2004 portion of 2-year commitment.*

Please return this completed form (FAX preferred) to:

**Ron Edelstein**  
 Director, State Regulatory Programs  
 GTI  
 1700 South Mount Prospect Road  
 Des Plaines, IL 60018

Phone: 847/768-0898  
 FAX: 847/768-0501  
 E-mail: ron.edelstein@gastechnology.org

Rev 0 - 10/02/03

cc: Ron Smedic

12/08/2003 16:11

=== COVER PAGE ===

TO:

\_\_\_\_\_

FROM:

MLGW EXECUTIVE STAFF

FAX: 9015284086

TEL:

COMMENT:

**Ron Snedlic**

12/08/2003 08:36 PM

To: Susan Jeffers/GTI@GTI, Anthony Czarny/GTI@GTI  
cc: Ron Edelstein/GTI@GTI, Bob Beauregard/GTI@GTI, Ken Wicherek/GTI@GTI  
Subject: Re: MLGW


Thx everyone

Sent from my BlackBerry Wireless Handheld  
Susan Jeffers

From: Susan Jeffers  
Sent: 12/08/2003 04:15 PM  
To: Anthony Czarny/GTI@GTI  
Cc: Ron Snedlic/GTI@GTI; Ron Edelstein/GTI@GTI; Bob Beauregard/GTI@GTI; Ken Wicherek/GTI@GTI  
Subject: MLGW

Anthony -- please issue and invoice to Memphis Light, Gas and Water as described below. I have passed this by Ken and he gave the go ahead for GRI to issue the invoice. Thanks!

--- Forwarded by Susan Jeffers/GTI on 12/08/2003 04:14 PM ---

 **Ron Snedlic**

12/08/2003 03:45 PM

To: Susan Jeffers/GTI@GTI  
cc: Ron Edelstein/GTI@GTI, Bob Beauregard/GTI@GTI  
Subject: MLGW

Susan:

I just talked to Wade Stinson. He is going to fax in an allocation form for \$200K. It will be as follows:

- \$60K DE Fund (2nd portion of commitment)
- \$40K PGIP
- \$40K SMP
- \$60K Non FERC Hold Account.

Wade needs to get approval from his BOD by next Thursday. Would you please arrange for an invoice to go out to him. It can simply state, "Research and Development Expense per 2004 Allocation Form.....\$200,000"

Thanks,

Ron Snedlic



Chris Flood

07/21/2003 10:02 AM

To: "Wade Stinson" <wstinson@mlgw.org>  
cc: Mark Stevens/GTI@GTI, Ron Edelstein/GTI@GTI  
Subject: Re: DG Fund

That is correct. Wade. Thank you for your commitment and support.

Chris

Chris Flood  
APGA/GTI  
11094-D Lee Hwy  
Suite 102  
Fairfax, VA 22030  
(703) 352-3890  
(703) 352-1271 fax  
(703) 407-0974 mobile  
"Wade Stinson" <wstinson@mlgw.org>



"Wade Stinson"  
<wstinson@mlgw.org>  
07/21/2003 10 53 AM

To: chris.flood@gastechnology.org  
cc:  
Subject: Re: DG Fund

**\*\* High Priority \*\***

Chris,  
We want to be in at the principle level, which I understand is \$60K per year, for a two year total of \$120K. Please let me know if this is not correct. Thanks, Wade

>>> <chris.flood@gastechnology.org> 07/21/03 08:28AM >>>

Wade,

As a follow-up to you memorandum below please clarify MLGW investment level for the 2003 DG Fund. The principal level investment is \$120,000 and the investor level is \$60,000.

Chris Flood  
APGA/GTI  
11094-D Lee Hwy  
Suite 102  
Fairfax, VA 22030  
(703) 352-3890  
(703) 352-1271 fax  
(703) 407-0974 mobile

"Wade Stinson"

<wstinson@mlgw.org> To:  
chris.flood@gastechnology.org, ron.edelstein@gastechnology.org  
g> cc: "Gene  
Crawford" <gcrawford@mlgw.org>, "Philip Lim" <plim@mlgw.org>

Subject: DG Fund

06/24/2003 05:34

PM

\*\* High Priority \*\*

Chris/Ron:

MLGW has made a decision to fund the distributed generation mutual fund at the principal level (\$60,000) during 2003. Our rep on this project will continue to be Philip Lim. This fund was inadvertantly left off our 2003 allocation form submitted earlier. If I need to do a revised allocation form, please e-mail me a copy. We would like to fund this project from our hold account, which my records indicate now stands at \$72,900. Please let me know if you have questions or need anything additional. Thanks, Wade Stinson, MLGW

-----  
06/24/2003, 04:35:00 PM

This e-mail and any attachments represent the views and opinions of only the sender and are not necessarily those of Memphis Light, Gas & Water Division, and no such inference should be made.  
=====

\*\*\*\*\*  
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\*\*\*\*\*

-----  
07/21/2003, 09:53:44 AM

This e-mail and any attachments represent the views and opinions of only the sender and are not necessarily those of Memphis Light, Gas & Water Division,



Chris Flood

07/14/2003 08:08 AM

To: Mark Stevens/GTI@GTI  
cc. Ron Edelstein/GTI@GTI  
Subject. Re: DG Fund

Mark,

Follow-up to confirm that you received notice that MLGW has agreed to join DG fund at \$60,000 level.

Chris Flood  
APGA/GTI  
11094-D Lee Hwy  
Suite 102  
Fairfax, VA 22030  
(703) 352-3890  
(703) 352-1271 fax  
(703) 407-0974 mobile



**Chris Flood**

07/09/2003 10:49 AM

To: Ron Edelstein/GTI@GTI  
cc:  
Subject: Re: DG Fund

Your response to Wade

Chris Flood

APGA/GTI

11094-D Lee Hwy

Suite 102

Fairfax, VA 22030

(703) 352-3890

(703) 352-1271 fax

(703) 407-0974 mobile

----- Forwarded by Chris Flood/GTI on 07/09/2003 11:51 AM -----



**Ron Edelstein**

06/25/2003 09:49 PM

To: "Wade Stinson" <wstinson@mlgw.org>  
cc: chris.flood@gastechnology.org, "Gene Crawford"  
<gcrawford@mlgw.org>, "Philip Lim" <plim@mlgw.org>  
Subject: Re: DG Fund

Wade, no your email is good enough for me. I have let Mark Stevens, the fund manager, know.

Thanks,

Ron

Ron Edelstein

Gas Technology Institute

1700 South Mount Prospect Road

Des Plaines, IL 60018

Phone: (847)768-0898

FAX: (847)768-0501





Chris Flood

07/09/2003 10:48 AM

To: Ron Edelstein/GTI@GTI  
cc:  
Subject: DG Fund

Chris Flood  
APGA/GTI  
11094-D Lee Hwy  
Suite 102  
Fairfax, VA 22030  
(703) 352-3890  
(703) 352-1271 fax  
(703) 407-0974 mobile

----- Forwarded by Chris Flood/GTI on 07/09/2003 11 50 AM -----



"Wade Stinson"  
<wstinson@mlgw.org>  
06/24/2003 05:34 PM

To: chris.flood@gastechnology.org, ron.edelstein@gastechnology.org  
cc: "Gene Crawford" <gcrawford@mlgw.org>, "Philip Lim"  
<plim@mlgw.org>  
Subject: DG Fund

**\*\* High Priority \*\***

Chris/Ron:

MLGW has made a decision to fund the distributed generation mutual fund at the principal level (\$60,000) during 2003. Our rep on this project will continue to be Philip Lim.

This fund was inadvertently left off our 2003 allocation form submitted earlier. If I need to do a revised allocation form, please e-mail me a copy. We would like to fund this project from our hold account, which my records indicate now stands at \$72,900.

Please let me know if you have questions or need anything additional.

Thanks, Wade Stinson, MLGW

-----  
06/24/2003, 04:35:00 PM

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=====

MEMPHIS



**Susan Jefferis**  
06/05/2003 11:19 AM

To: Ron Edelstein/GTI@GTI  
cc:  
Subject: Re: Obstacle Detection - Ground Penetrating Radar ( GPR ) Project

----- Forwarded by Susan Jeffers/GTI on 06/05/2003 11:19 AM -----



**Ron Tomb**  
06/05/2003 10 54 AM

To: Susan Jefferis/GTI@GTI  
cc:  
Subject: Re: Obstacle Detection - Ground Penetrating Radar ( GPR ) Project

Susan - copy of earlier e-mail with Wade Stinson's approval

Ron

----- Forwarded by Ron Tomb/GTI on 06/05/2003 10:53 AM -----



**Ron Tomb**  
05/23/2003 09:09 AM

To: Susan Jefferis/GTI@GTI  
cc: Terri Gamboa/GTI@GTI  
Subject: Re: Obstacle Detection - Ground Penetrating Radar ( GPR ) Project

Susan, Wade Stinson's approval is attached. We will add the new task.

Ron

----- Forwarded by Ron Tomb/GTI on 05/23/2003 09:08 AM -----



**"Wade Stinson"**  
<wstinson@mlgw.org>  
05/23/2003 08:59 AM

To: ron.tomb@gastechnology.org  
cc:  
Subject: Re: Obstacle Detection - Ground Penetrating Radar ( GPR ) Project

**\*\* High Priority \*\***

I agree with the transfer from the hold account. Thanks, Wade

>>> <ron.tomb@gastechnology.org> 05/22/03 02:32PM >>>

Hi Wade, before we actually transfer funds from your hold account as requested, would you please respond with your concurrence.

Thanks,

Ron Tomb

----- Forwarded by Ron Tomb/GTI on 05/22/2003 02:25 PM -----

Kiran Kothari

Jefferis/GTI@GTI

To: Susan

05/22/2003 11:33

cc: Ron

Tomb/GTI@GTI

AM

Subject: Obstacle

Detection - Ground Penetrating Radar ( GPR ) Project

Susan,

Please see below the note from Gene Crawford of MLG&W for fund transfer.

Please transfer \$9,209 from the MLG&W hold account to the GTI project # 88020.

Ron,

Please create a separate task (88020-03) for MLG&W under the project. This

fund will be used by Gene Crawford (or MLG&W staff) to attend the subject project review meetings.

Please let me know if you have any questions. Thanks.

Kiran Kothari  
Principal Program Manager  
Gas Technology Institute  
1700 South Mount Prospect Road  
Des Plaines, IL 60018-1800

Tel: +1 (847) 768-0893

Cell: +1 (847) 833-5358

Fax: +1 (847) 768-0501

E-mail: kiran.kothari@gastechnology.org

----- Forwarded by Kiran Kothari/GTI on 05/22/2003 11:19 AM -----

"Gene Crawford"

<gcrawford@mlgw.o  
kiran.kothari@gastechnology.org

To:

<wstinson@mlgw.org>

rg>

cc: "Wade Stinson"

Subject: Obstacle

Detection - Ground Penetrating Radar ( GPR ) Project  
05/22/2003 10:32

AM

**\*\* High Priority \*\***

I am requesting that GTI transfer \$ 9,209.00 from Memphis Light Gas & Water's hold account to the Obstacle Detection - GPR project . The transfer allows for additional project review meetings needed for this project.

If you need additional information on this transfer, please give me a call.

**Company Allocation Form (for 2004)**

Company Name: Middle Tennessee Natural Gas District  
Company Address: P. O. Box 670 Smithville, TN 37166  
Customer Name: Leslie B Enoch, II Title: Chief Executive Officer

Signature: \_\_\_\_\_ Date: November 12, 2003  
Phone: 615/597-4300 FAX: 615/597-6331 Email: lenoch@mtng.com

Estimated 2004 Client Funding \$U.S. 47,771.00  
Other Sources (please specify) \_\_\_\_\_ \$U.S. \_\_\_\_\_

Please indicate the amount of client funding for 2004 that your company wishes to allocate among the following R&D investment options. Collaborative Programs are subject to minimum allocations.

**Investment Options (Indicate allocation for each)**

**2004 GTI Collaborative Programs (formerly Mutual Funds<sup>SM</sup>) (anchor, principal, and minimum investor levels for a two-year commitment, unless otherwise noted)**

☒ None at this time

**2004 GTI Collaborative Projects (formerly called GTI Select<sup>SM</sup>)**

- ☒ Pipeline Integrity Management Phase II: ECDA Situations (\$10,000) \_\_\_\_\_
- ☒ Pipeline Integrity Management Phase III: Internal Corrosion (\$10,000) \_\_\_\_\_
- ☒ Benchmarking MGP Costs & Management Practices (\$35,000) \_\_\_\_\_
- ☒ Ergonomics Handbook and Tool Development (\$24,000) \_\_\_\_\_
- ☒ Interchangeability of International LNG with Domestic U.S. Pipeline Natural Gas  
(Contact your Strategic Account Manager for dollar level) \_\_\_\_\_

**Other Options**

- GTI 2004 SMP Emerging Technology (Contact Vince Fiore GTI for dollar level) \_\_\_\_\_
- Operations Technology Development (Contact Vince Fiore GTI for dollar level) \_\_\_\_\_
- Operator Qualifications (Contact your Strategic Account Manager for dollar level) \_\_\_\_\_
- Combination Space/Water Heater Field Test (\$125,000 for 5 units, \$175,000 for 10) \_\_\_\_\_
- Public Gas Investment Pool (Contact Chris Flood GTI/APGA for dollar level) \$47,771.00
- Please put in my company's hold account for future investment \_\_\_\_\_

Total \$U.S. 47,771.00

Please return this completed form (FAX preferred) to:

**Ron Edelstein**  
Director, State Regulatory Programs  
GTI  
1700 South Mount Prospect Road  
Des Plaines, IL 60018

Phone: 847/768-0898  
FAX: 847/768-0501  
E-mail: ron.edelstein@gastechnology.org

Rev 0 - 10/02/03

cc: Jim Hodges

**Company Allocation Form (for 2003)**

Company Name: Middle Tennessee Natural Gas District  
Company Address: P. O. Box 670 Smithville, TN 37166  
Customer Name: Leslie B. Enoch, II Title: CEO

Signature:  Date: March 13 2003

Phone: 615/597-4300 FAX: 615/597-6331 Email: lenoch@mtng.com

Estimated 2003 Client Funding \$U.S. 47,771.00

Other Sources (please specify) \_\_\_\_\_ \$U.S. \_\_\_\_\_

Please indicate the amount of client funding for 2003 that your company wishes to allocate among the following R&D investment options. Collaborative Programs are subject to minimum allocations.

**Investment Options (indicate allocation for each)**

**2003 GTI Collaborative Programs (formerly Mutual Funds<sup>SM</sup>) (anchor, principal, and minimum investor levels for a two-year commitment, unless otherwise noted)**

- ☒ Gas Technical Advisor Phase III (\$50,000) \$U.S. \_\_\_\_\_
- ☒ Residential/Commercial Customer Opportunities  
(\$200,000, \$100,000, \$25,000) \_\_\_\_\_
- ☒ Identifying Opportunities in Distributed Energy Markets (\$300,000, \$120,000, \$60,000) \_\_\_\_\_
- ☒ Cooling Solutions (\$100,000, -, \$50,000) \_\_\_\_\_
- ☒ Utility Security: Issues and Implementation (\$200,000, -, \$50,000) \_\_\_\_\_
- ☒ Near-Term Cost Savings for Energy Utilities (\$250,000, -, \$50,000) \_\_\_\_\_
- ☒ Advanced Sediments Management (\$150,000) \_\_\_\_\_
- ☒ Biomass Gasification for Renewable Applications (\$400,000, \$200,000, \$100,000) \_\_\_\_\_
- ☒ Metropolitan Renewable Energy (\$250,000, \$100,000, \$50,000) \_\_\_\_\_

**2003 GTI Collaborative Projects (formerly called GTI Select<sup>SM</sup>)**

- ☒ Benchmarking MGP Costs & Management Practices (\$35,000) \_\_\_\_\_
- ☒ Foreign Technology Transfer (\$10,000) (one-year commitment & program) \_\_\_\_\_

**Other Options**

- ☐ GTI 2003 SMP Emerging Technology (Contact Vince Fiore, GTI for dollar level) \_\_\_\_\_
- ☐ Operations Technology Development (Contact Vince Fiore, GTI for dollar level) \_\_\_\_\_
- ☐ Public Gas Investment Pool (Contact Chris Flood GTI/APGA for dollar level) \$47,771.00
- ☐ Please put in my company's hold account for future investment \_\_\_\_\_

Total \$U.S. 47,771.00

Please return this completed form (FAX preferred) to:

**Ron Edelstein**  
Director, State Regulatory Programs  
GTI  
1700 South Mount Prospect Road  
Des Plaines, IL 60018

Phone: 847/768-0898  
FAX: 847/768-0501  
E-mail: ron.edelstein@gastechnology.org

**Customer Allocation Form for Cofunded Research Collaboration Projects**

Company Name: Memphis Light Gas & Water Division  
Company Address: P.O. Box 430 Memphis, TN 38101  
Contact Name: Wade Stinson Title: VP Const. & Maint.

Signature: Wade Stinson Date: 2/19/02

Phone: 901-528-4136 FAX: 901-528-4686 Email: wstinson@mlgw.org

Estimated Total Non-FERC Funding

\$U.S. \_\_\_\_\_

Please indicate the amount of (non-FERC) cash cofunding that your company will allocate among the following Research Collaboration options. Dollars shown on allocation forms received before March 31, 2002, will receive GTI FERC cofunding in the ratio of 80/20 (FERC/company \$). Dollars shown on forms received during the period April 1, 2002 - December 31, 2002, will receive FERC/company cofunding in the ratio of 60/40. Minimum per company investment levels for the 2001/1<sup>st</sup> Quarter 2002 time period and the 2<sup>nd</sup>-4<sup>th</sup> Quarter 2002 time period, respectively, are shown below, assuming 10 participants per project, unless otherwise shown in brackets. If less than 10 (or the indicated number of) participants sign up, investors can elect to either contribute additional funds or reduce the scope of the project. Investments at twice the minimum level shown (in the appropriate time period) will raise a customer's priority on being selected as a field test partner.

**Operations Investment Options** (indicate allocation for each) *(End Use options on p. 2)*

**Research Collaboration Cofunded Options** (minimum 2001/1<sup>st</sup> Quarter 2002 Investment, 2<sup>nd</sup>-4<sup>th</sup> Quarter 2002 investment shown in parenthesis)

- |   |                     |
|---|---------------------|
| ✓ Alternative Shoring Techniques (\$5,000, \$10,000)                                    | \$U.S. _____        |
| ✓ Emergency Response to Blowing Gas (\$16,000, \$32,000)                                | _____               |
| ✓ Field-Applied Pipeline Coatings (\$40,000, \$80,000)                                  | _____               |
| ✓ Geosynthetics in Pavement Restoration (\$5,000, \$10,000)                             | _____               |
| ✓ Keyhole Technology (\$20,000, \$40,000)   | _____               |
| ✓ Leak Detection Technology (\$10,000, \$20,000)  | \$ <u>10,000</u>    |
| ✓ Obstacle Detection for Directional Drilling (DD): Acoustic (\$36,000, \$72,000) [8 p] | <u>36,000</u>       |
| ✓ Obstacle Detection for DD: Differential Impedance (\$5,000, \$10,000)                 | Fully funded by DOE |
| ✓ Obstacle Detection for DD: Electromagnetic (\$15,000, \$30,000) [4 participants]      | <u>15,000</u>       |
| ✓ Obstacle Detection for DD: Ground Penetrating Radar (\$50,000, \$100,000) [8 part]    | <u>50,000</u>       |
| ✓ Palm™ Technology (\$20,000, \$40,000)   | _____               |
| ✓ Pipe Lining Technology (\$22,000, \$44,000)   | _____               |
| ✓ Pipe System Integrity Management (\$10,000, \$20,000)                                 | _____               |
| ✓ Polyethylene Pipe Location (\$6,000, \$12,000)  | _____               |
| ✓ Portable Methane Detector (\$20,000, \$40,000) [7 participants]                       | <u>20,000</u>       |
| ✓ "Smart" Cathodic Protection Monitor (\$10,000, \$20,000)                              | Funded by SMP       |

Please return (FAX preferred) this completed form to:

**Ron Edelstein**

Director, Sales

GTI

1700 South Mount Prospect Road  
Des Plaines, IL 60018

FAX: (847) 768-0501

Phone: (847) 768-0898

E-mail: [ron.edelstein@gastechnology.org](mailto:ron.edelstein@gastechnology.org)

---

Company Allocation Form (for 2002)

Company Name: \_\_\_\_\_

Company Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Phone: \_\_\_\_\_ FAX: \_\_\_\_\_ Email: \_\_\_\_\_

Estimated 2002 Non-FERC Funding \$U.S. \_\_\_\_\_

Other Sources (please specify) \$U.S. \_\_\_\_\_

Please indicate the amount of non-FERC funding for 2002 that your company wishes to allocate among the following R&D investment options. Funds are subject to minimum allocations.

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Investment Options (indicate allocation for each)2002 GTI RD&C Mutual Funds<sup>SM</sup> (anchor, principal, and minimum investor levels)☒ Gas Cooling Product Development (\$200,000, \$100,000, \$25,000) \$U.S. \_\_\_\_\_☒ PEM Fuel Cell Product Development  
for Commercial Markets (\$300,000, --, \$100,000) \_\_\_\_\_2001-2002 GTI RD&C Mutual Funds<sup>SM</sup> (anchor, principal, and minimum investor levels)☒ Codes and Standards (\$180,000, \$90,000, \$25,000) \$U.S. \_\_\_\_\_☒ Cooling Solutions for Customer Choice (\$100,000, \$50,000, \$25,000) \_\_\_\_\_☒ Emerging Technologies (SMP) Program (See SMP write-up to determine investment level) \_\_\_\_\_☒ Identifying Opportunities in Distributed Generation Markets  
(\$250,000 - Includes demo host site, \$150,000, \$75,000, \$25,000) \_\_\_\_\_☒ Industrial Market: Gas Technology Advisor-Phase II (\$200,000, \$100,000, \$25,000) \_\_\_\_\_☒ Industrial Market: Demonstration Projects (\$200,000, \$100,000, \$25,000) \_\_\_\_\_☒ Industrial Market: Highly Leveraged R&D Projects (\$200,000, \$100,000, \$25,000) \_\_\_\_\_☒ Operations Technology Choices (\$300,000, --, \$50,000) \_\_\_\_\_☒ Residential/Commercial Customer Opportunities (\$200,000, \$100,000, \$25,000) \_\_\_\_\_☒ Vehicle Fleet and Fueling Systems (\$100,000, \$50,000, \$25,000) \_\_\_\_\_GTI Select<sup>SM</sup>☐ Subject(s): \_\_\_\_\_

## Other Options

☐ Custom Technical Solution Subject(s): \_\_\_\_\_☐ Public Gas R&D Investment Pool (Contact APGA for details) \_\_\_\_\_☐ Place in my company's hold account for future designations \_\_\_\_\_

---

Total \$U.S. 131,000

Please return this completed form (FAX preferred) to:

Ron Edelstein

Director, Sales

GTI

1700 South Mount Prospect Road

Des Plaines, IL 60018

Phone: 847/768-0898

FAX: 847/768-0501

E-mail: ron.edelstein@gastechnology.org

G A S R E S E A R C H I N S T I T U T E  
1700 South Mount Prospect Road | Des Plaines, Illinois | 60018  
T 847 768 0500 | F 847 768 0501 | www.gastechnology.org



Invoice No: 011568  
Invoice Date: 02/28/2002  
Customer Number: 1156  
Due Date: 03/30/2002

Memphis Light, Gas & Water Division  
Attn: Mr. Wade Stinson  
P.O. Box 430  
Memphis TN 38101-0430

AMOUNT DUE: 294,500.00 USD

For billing questions, please call 847/768-0749  
D: 11025  
C: 010-26100

1	MISC	Funds	294,500.00
	For 2002 R&D Expenses		

Requester: Ron Edelstein  
c: CFlood  
SJefferis  
file

SUBTOTAL:	294,500.00
-----------	------------

TOTAL AMOUNT DUE :	294,500.00
--------------------	------------

REMIT TO ADDRESS :  
GRI  
LOCKBOX NO. 91806  
Chicago, IL 60693 USA

PLEASE REFER TO INVOICE NO. ON REMITTANCE



**Company Allocation Form (for 2003)**

Company Name: Memphis Light, Gas & Water  
Company Address: P.O. Box 430 Memphis, TN 38101  
Customer Name: Wade Stinson Title: VP, Constr. & Maint.

Signature: Wade Stinson Date: 12/17/02  
Phone: 901-528-4126 FAX: 901-528-4086 Email: wstinson@mlgw.org

Estimated 2003 Non-FERC Funding \$U.S. 124,251

Other Sources (please specify) \_\_\_\_\_ \$U.S. \_\_\_\_\_

Please indicate the amount of non-FERC funding for 2003 that your company wishes to allocate among the following R&D investment options. Mutual Funds are subject to minimum allocations.

**Investment Options (Indicate allocation for each)****2003 GTI RD&C Mutual Funds<sup>SM</sup> (anchor, principal, and minimum investor levels, per year)**

- ✓ Gas Cooling Product Development (\$200,000, \$100,000, \$25,000) \$U.S. \_\_\_\_\_
- ✓ Industrial Gas Technical Advisor Phase III (\$50,000) \_\_\_\_\_
- ✓ Codes and Standards (TBD) \_\_\_\_\_
- ✓ Identifying Opportunities in Distributed Generation Markets (\$150,000, \$60,000, \$30,000) \_\_\_\_\_

**GTI Select<sup>SM</sup>**

- Safe, Reliable O&M of Aldyl-A Plastic Gas Pipe Systems (\$55,000) \_\_\_\_\_
- Successful Reconditioning of Corroded Gas Risers (\$60,000) \_\_\_\_\_
- Other Subject(s): \_\_\_\_\_

**Other Options**

- GTI 2003 SMP Program (Contact Vince Fiore, GTI for dollar level) 40,000
- Custom Technical Solutions Subject(s): \_\_\_\_\_
- Public Gas R&D Investment Pool (Contact Chris Flood, GTI/APGA for details) 40,000
- Place in my company's hold account for future designations \_\_\_\_\_

Total (Grand total for all projects) \$U.S. 124,251  
Please return this completed form (FAX preferred) to:

**Ron Edelstein**  
Director, Sales  
GTI  
1700 South Mount Prospect Road  
Des Plaines, IL 60018

Phone: 847/768-0898  
FAX: 847/768-0501  
E-mail: ron.edelstein@gastechnology.org

**Customer Allocation Form for Cofunded Research Collaboration Projects**Company Name: Memphis Light, Gas & Water (pg 2)

Company Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Phone: \_\_\_\_\_ FAX: \_\_\_\_\_ Email: \_\_\_\_\_

Estimated Total Non-FERC Funding \$U.S. \_\_\_\_\_

Please indicate the amount of (non-FERC) cash cofunding that your company will allocate among the following Research Collaboration options. Dollars shown on allocation forms received before March 31, 2002, will receive GTI FERC cofunding in the ratio of 80:20 (FERC/company \$). Dollars shown on forms received during the period April 1, 2002 – December 31, 2002, will receive FERC/company cofunding in the ratio of 60:40. Minimum per company investment levels for the 2001/1<sup>st</sup> Quarter 2002 time period and the 2<sup>nd</sup>-4<sup>th</sup> Quarter 2002 time period, respectively, are shown below, assuming 10 participants per project, unless otherwise shown in brackets. If less than 10 (or the indicated number of) participants sign up, investors can elect to either contribute additional funds or reduce the scope of the project. Investments at twice the minimum level shown (in the appropriate time period) will raise a customer's priority on being selected as a field test partner.

**Operations Investment Options** (Indicate allocation for each)

**Research Collaboration Cofunded Options** (minimum 2001/1<sup>st</sup> Quarter 2002 Investment, 2<sup>nd</sup>-4<sup>th</sup> Quarter 2002 investment shown in parenthesis)

- |   |               |
|---|---------------|
| ✓ Emergency Response to Blowing Gas (\$16,000, \$32,000)  | \$U.S. _____  |
| ✓ Evaluation of Alternative Shoring Techniques (\$5,000, \$10,000)  | _____         |
| ✓ Field-Applied Pipeline Coatings (\$40,000, \$80,000)  | _____         |
| ✓ Cured-in-Place Lining: Reducing Customer Outage Time (\$10,000, \$20,000) [5 Participants]                | _____         |
| ✓ Cured-in-Place Lining: Improving Structural Integrity (\$7,500, \$15,000) [4 Participants]                | _____         |
| ✓ Keyhole Technology: Small, Lightweight Gas Stopping Equipment (\$20,000, \$40,000) [6 Participants]       | _____         |
| ✓ Keyhole Technology: Market Evaluation & Product Development (\$20,000, \$40,000)                          | <u>20,000</u> |
| ✓ Digital Sonic Leak Pinpointer (\$10,000, \$20,000) [6 Participants]                                       | _____         |
| ✓ Evaluation of Pavement Restoration Technologies (\$10,000, \$20,000) [5 Participants]                     | _____         |
| ✓ Advanced Tracer Wire Terminator for Polyethylene Pipe (PE) Location (\$10,000, \$20,000) [5 Participants] | _____         |
| ✓ Portable Methane Detector (\$20,000, \$40,000) [7 participants]   | _____         |
| ✓ Pipe System Integrity Management (\$10,000, \$20,000)   | <u>10,000</u> |

Please return (FAX preferred) this completed form to:

Ron Edelstein

Director, Sales

GTI

1700 South Mount Prospect Road

Des Plaines, IL 60018

FAX: (847) 768-0501

Phone: (847) 768-0898

E-mail: ron.edelstein@gastechnology.org



**Chris Flood**

03/07/2003 10:21 AM

To: wstinson@mlgw.org  
cc: Ron Edelstein/GTI@GTI, Vince Fiore/GTI@GTI, Susan  
Jefferis/GTI@GTI, Ron Snedic/GTI@GTI  
Subject: 2003 SMP Investment

Wade,

Confirming our phone call this morning we will transfer \$40,000 from MLGW hold account (current balance \$82,109) toward MLGW 2003 SMP investment (per 2003 allocation form rec'd 12/31/2002) leaving a MLGW hold account balance of \$42,109.

Thank you for your continued support of GTI R&D and the SMP program.

Chris Flood  
APGA/GTI  
11094-D Lee Hwy  
Suite 102  
Fairfax, VA 22030  
(703) 352-3890  
(703) 352-1271 fax  
(703) 407-0974 mobile

F/U w/ Ron

(a) TXU received per 54th of their contributions be allocated to Pattern Recognition Technologies \$1110 to Dispersed Benares \$726 for RERNED \$2044 for BIMA \$114 021 for a Starline dome \$5,802.96 for EnergyLink \$1300 to Primen for CTS  
 (b) TECO has designated \$250K for Hughes Hotel Desiccant Demonstration – these funds were returned to TECO in addition \$110 400 was earmarked for EnergyLink for the KnowledgeLink database  
 (c) CPB Awardee designated \$102 000 for CPU Tools contract with Nicco (R 3230) and \$32 856 for HX Project 306100  
 (d) PG&E has designated \$50K for Gas Utility Construction Decision Guide (K 81 R202) and \$12 500 for Stray Current Mapping workS&C of a \$1 444 per mile project  
 (e) ONG has designated \$17 K in Site-to-Site Material Collection project (DOT K 8248)  
 (f) Denison committed \$25 000 for a T&E with S&C (Project 3004040)  
 (g) Alagona & Hargrove committed cash in the amount of \$28 400 and \$28 400 respectively for a Water Heater Venting project (K 8598 to GT)  
 (h) Keyspan committed \$28 363 in Trifluorobutane gas cash-in collecting on T&E by GT)

**AMERICAN PUBLIC  
GAS ASSOCIATION**

11094-D Lee Highway

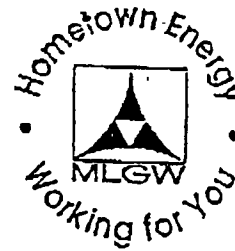
Fairfax, VA 22030-5014

703/352-3890

703/352-1271 (fax)

**FAX COVER SHEET**DATE: 2-22-02 PAGES: 5 TOTALTO: RON EDELSTEINCOMPANY: ALL 6TIFAX #: 847-768-0501FROM: CHUCK F.**COMMENTS/SPECIAL INSTRUCTIONS:**MLG ALLOCATION

If you experience difficulty receiving this fax, please call the number above.

F A C S I M I L E  
T r a n s m i t t a l

MEMPHIS LIGHT, GAS AND WATER DIVISION  
220 SOUTH MAIN STREET  
POST OFFICE BOX 430  
MEMPHIS, TN 38101-0430

DATE:	2-20-02
TO:	Chris Reed
FAX #:	(901) 528-1271
TELEPHONE #:	(901) 528-3890
FROM:	Tom Stinson / Jim Dechman
SENDER'S FAX #:	(901) 528-4086
SENDER'S TEL #:	(901) 528-4134
SUBJECT:	Customer Attention Form
# OF PAGES:	4, including this transmittal form

COMMENTS:



Susan Jefferis

01/24/2002 09:52 AM

To: Chris Flood/GTI@GTI

cc: Margie Gonzalez/GTI@GTI, Ron Edelstein/GTI@GTI, Susan Jefferis/GTI@GTI

Fax to:

Subject: Re: Visit

As the last piece of the puzzle, here's how we've allocated MLGW's \$800k as of 12/31/01:

1999-2000 PGIP	\$ 80,000
Excavation & Restoration	\$ 22,500
Global Tech Tfr Alliance	\$ 36,000
30% SMYS	\$ 5,000
GTI SMP 2001	\$ 40,000
'99-'00 O&M MF	\$175,000
'99-'00 DG MF	\$ 20,000
'99-'00 Cooling MF	\$ 20,000
'99-'00 Cust Growth MF	\$ 1,000
'01-'02 NGV MF	\$ 20,000
'01-'02 DG MF	\$112,750 (to-date; allocated \$150k)
'01-'02 Cust Growth MF	\$ 25,000
'01-'02 Opns Tech MF	\$242,750 (to-date; allocated \$290k)

Chris Flood



Chris Flood

01/23/2002 03:51 PM

To: Margie Gonzalez/GTI@GTI

cc: Ron Edelstein/GTI@GTI, Susan Jefferis/GTI@GTI

Fax to:

Subject: Re: Visit

It pays to keep old e-mails - Margie this will shed some light on MLGW situation. As you know I will be visiting MLGW next week and will address the commitments vs collections issue along with restarting the invoicing. As your e-mail from earlier today indicated that they have sent us 800K and Ron E and I show allocations for a little over 1 OM. Thanks for your help and assistance

Chris Flood

APGA/GTI

(703) 352-3890

----- Forwarded by Chris Flood/GTI on 01/23/2002 04:53 PM -----



"Wade Stinson"

<wstinson@mlgw.org>

01/25/2001 01:58 PM

To: <chris.flood@gastechnology.org>

cc:

Fax to:

Subject: Re: Visit

**\*\* High Priority \*\***

Chris,

Everything looks correct, with one exception and I will forward the allocation form soon. The exception is the hold account amount of \$140k. For cash flow and fiscal management reasons, I would like to avoid a large hold account at GTI. So, the bottom line total on the form for now will be \$660k. If we decide to invest in other funds or projects along the way, we can pay for that out of our present hold account or from our R&D budget.

Also, I would like to spend down our present hold account of \$420.5k before we resume sending quarterly payments to GTI. Depending on our participation in projects beyond our present commitment, that would mean we may not actually

send in additional payments to GTI during 2001.

Thanks for the presentation and well organized working session yesterday and the quick response today. We are committed to gas industry R&D and look forward to a continued working relationship with GTI. Please let us know of future R&D projects that may be of interest to MLGW. Thanks, Wade Stinson, MLGW

>>> <chris.flood@gastechnology.org> 01/25/01 11:31AM >>>

Wade,

Thank you for the opportunity to visit with you and other members of MLGW yesterday. As a result of our meeting yesterday, I would like to confirm with you the 2001-2002 MLGW allocations that were discussed, with the understanding that MLGW's 2001-2002 Allocation Form is forthcoming and will be recognized as the "official" allocation form for your 2001-2002 Mutual Fund Investment Selections.

2001-2002 Mutual Fund Investment Selections		
Codes and Standards	Investor level	\$25,000
Creating Value with Natural Gas Vehicle Markets	Investor Level	
\$20,000 (Rollover from 1999-2000 not included in total)		
Emerging Technologies (SMP) Program		\$80,000 (\$40,000 per year)
Identifying Opportunities in DG Markets	Anchor	
\$150,000		
Operations Technology Choices	Anchor	\$300,000
Residential/Commercial Customer Opportunities	Investor	\$25,000
Public Gas Investment Pool		\$80,000
Sub Total		\$660,000
Hold for Future Investment		\$140,000
Total Allocation for 2001-2002		\$800,000

Per your request I contacted Margie Gonzalez at GTI with regard to your account which shows that your account is current through 12/31/00 as identified below. In addition, I was able to confirm that we can suspend invoicing for the first quarter of this year. If you would like to extend that through the second quarter please let me know. Finally, over the next few days we will be following up additional action items resulting from our meeting.

Thank you again for your time as well as that of Bill, Gene, Becky, Phillip and Leonard. We recognize that this is a very busy and unusual time and greatly appreciate your continued leadership and support of GTI R&D.

Sincerely,

Chris

M----- Forwarded by Chris Flood/GRI on 01/25/2001 11:30 AM -----

Margie Gonzalez	To: Chris Flood/GRI@GRI
01/25/2001	cc:
11:23 AM	Subject: Memphis Light

Hi Chris,  
this is the data that I found:



4th qtr 00 : pd \$100k  
3rd qtr 00: pd \$100k  
2nd qtr 00: pd \$100k  
1st qtr 00: pd \$100k  
4th qtr 99 : pd \$100k  
3rd qtr 99: pd \$100k  
2nd qtr 99: pd \$100k  
1st qtr 99: pd \$100k

TOTAL \$ received: \$800,000.00



Chris Flood

08/23/2001 12:06 PM

To: Ron Edelstein/GRI@GRI

cc:

Subject: Clearwater and Brownsville

Ron, I spoke with Brownsville (John Sharpe) and Clearwater (Brian Langille) today regarding commitments versus collections.

Here is the result:

Brownsville (John Sharpe) has requested to charge outstanding balance (\$1,039) against PGIP account (\$1,860) to balance 1999-2000 account.

Clearwater (Brian Langille) we discussed situation and options. They will review 1999-2000 pipeline bills to determine from their records payment amounts and forward those findings to GTI. Should they find outstanding balance to be accurate, early indication is that they may true-up the account by sending GTI the difference. Decision should be made by this time next week.

Note: Brian may contact you with questions, if any, next week as I will be out of the office on vacation 8/27-8/31

Chris Flood

APGA/GTI

Customer Relations Manager, Municipal Systems

(703) 352-3890

MGSAC Allocation Form (for 2001 and 2002) Date: 2-1  
Company Name: Brownsville Utility Dept  
System Address: P.O. Box 424 Brownsville, TN 38012  
Contact Name: John E. Sharpe Title: Gen Mgr  
Signature: [Signature]  
Phone: 901-772-8845 FAX: 901-772-8811 Email: JSharpe@budutil.com

2001 R&D Funding

\$ 4500.00

2002 R&D Funding

\$ 6000.00

Please indicate the amount of R&D funding for 2001 and 2002 that your system will allocate among the following investment options.

Investment Options (Indicate allocation for each)	2001	2002
<b>GTI LDC R&amp;D Mutual Funds</b>		
✓ Codes and Standards	\$ _____	\$ _____
✓ Cooling Solutions for Customer Choice	\$ _____	\$ _____
✓ Gas Forecasting and Resource Planning	\$ _____	\$ _____
✓ Identifying Opportunities in Distributed Generation Mkts.	\$ _____	\$ _____
✓ Industrial Market Technology Demonstrations	\$ _____	\$ _____
✓ Manufactured Gas Plants Solutions	\$ _____	\$ _____
✓ Operations Technology Choices	\$ _____	\$ _____
✓ Residential/Commercial Customer Growth	\$ _____	\$ _____
✓ SMP Emerging Technologies Program	\$ _____	\$ _____
<b>GTI Select-</b>		
• Subject(s): _____	\$ _____	\$ _____
<b>Other</b>		
• Custom Technical Solution Subject(s): _____	\$ _____	\$ _____
• Public Gas R&D Investment Pool	\$ <u>4500.00</u>	\$ <u>6000.00</u>
• Place in hold account for future direction	\$ _____	\$ _____
<b>Total</b>	\$ <u>4500.00</u>	\$ <u>6000.00</u>


Please return this completed form to:

Chris Flood  
Customer Relations Manager  
Municipal Systems  
APGA/GTI  
11094-D Lee Highway  
Fairfax, VA 22030-5014

703-352-3890  
703-352-1271 (fax)

**Company Allocation Form (for 2001 and 2002)**

Company Name: Jackson Utility Division  
Company Address: P.O. Box 68, Jackson, TN 38302-0068  
Contact Name: Charlie Crockarell Title: Sr. Vice Pres. - Gas System

Signature:  Date: Apr 5, 2001  
Phone: (731) 422-7206 FAX: (731) 422-7221 Email: ccrock@jud.com

Estimated 2001 Non-FERC Funding \$U.S. 75,000  
Estimated 2002 Non-FERC Funding \$U.S. 80,000

Please indicate the amount of non-FERC funding for 2001 and 2002 that your company wishes to allocate among the following R&D investment options. Funds are subject to minimum allocations.

**Investment Options (indicate allocation for each)**

2001-2002 GTI RD&C Mutual Funds<sup>SM</sup> (anchor, principal, and minimum investor levels)

- ✓ Codes and Standards (\$180,000, \$90,000, \$25,000) \$U.S. \_\_\_\_\_
- ✓ Cooling Solutions for Customer Choice (\$100,000, \$50,000, \$25,000) \_\_\_\_\_
- ✓ Creating Value within the Natural Gas Vehicle Market (\$100,000, \$50,000, \$25,000) \_\_\_\_\_
- ✓ Emerging Technologies (SMP) Program \_\_\_\_\_  
(See write-up on net operating income formula to determine investment level)
- ✓ Environmental Solutions: Contaminants in Sediments (\$120,000, \$60,000, 25,000) \_\_\_\_\_
- ✓ Identifying Opportunities in Distributed Generation Markets \_\_\_\_\_  
(\$250,000 - Includes demo host site, \$150,000, \$75,000, \$25,000)
- ✓ Industrial Market: Technical Marketing/Sales Tools (\$200,000, \$100,000, \$25,000) \_\_\_\_\_
- ✓ Industrial Market: Demonstration Projects (\$200,000, \$100,000, \$25,000) \_\_\_\_\_
- ✓ Industrial Market: Highly Leveraged R&D Projects (\$200,000, \$100,000, \$25,000) \_\_\_\_\_
- ✓ Operations Technology Choices (\$300,000, \$300,000, \$50,000) \_\_\_\_\_
- ✓ Residential/Commercial Customer Opportunities (\$200,000, \$100,000, \$25,000) \_\_\_\_\_

**GTI Select<sup>SM</sup>**

- Subject(s): \_\_\_\_\_

**Other Options**

- Custom Technical Solution Subject(s): \_\_\_\_\_
- Public Gas R&D Investment Pool (Contact APGA for details) 155,000
- Place in hold account for future designations (up to one year) \_\_\_\_\_

**Total (2 year period)** \$U.S. 155,000

Please return this completed form to.

Chris Flood  
Regional Customer Relations Mgr.  
APGA/GTI  
11094-D Lee Hwy  
Fairfax, VA 22030

Phone: 703/352-3890  
FAX: 703/352-1271  
E-mail: [chris.flood@gastechnology.org](mailto:chris.flood@gastechnology.org)

**Company Allocation Form (for 2000)**Company Name: Jackson Utility DivisionCompany Address: P.O. Box 68, Jackson, TN 38302-0068Contact Name: Charlie Crockarell Title: Sr. Vice Pres.-Gas SystemSignature: Phone: (731) 422-7206 FAX: (731) 422-7221 Email: ccrock@jud.com

Estimated 2000 Non-FERC Funding

\$ 34,195

Please indicate the amount of non-FERC funding for 2000 that you wish to allocate among the following investment options.

**Investment Options (indicate allocation for each)**

GRI Non-FERC LDC R&amp;D Mutual Funds (anchor level, principal level, minimum level)

- Reducing Barriers to Residential & Commercial Markets (\$141,000, \$70,500, \$1,000) \$ \_\_\_\_\_
- Residential/Commercial Customer Growth (\$243,000, \$121,500, \$1,000) \_\_\_\_\_
- Cost-Saving O&M Practices (\$174,000, \$87,000, \$1,000) \_\_\_\_\_
- Environmental Solutions (\$96,000, \$48,000, \$1,000) \_\_\_\_\_
- Cost-Effective Pipe Installation (\$102,000, \$51,000, \$1,000) \_\_\_\_\_
- Gas Supply and Resource Planning (\$147,000, \$73,500, \$5,000) \_\_\_\_\_
- Operational Efficiencies for Combination Utilities (\$78,000, \$39,000, \$5,000) \_\_\_\_\_
- Cooling Solutions for Customer Choice (\$87,000, \$43,500, \$20,000) \_\_\_\_\_
- Creating Value with Natural Gas Vehicles (\$70,800, \$35,400, \$20,000) \_\_\_\_\_
- Identifying Opportunities in Distributed Generation Mkts. (\$180,000, \$90,000, \$20,000) \_\_\_\_\_
- Industrial Market Growth (\$185,400, \$92,700, \$20,000) \_\_\_\_\_

GRI Select<sub>am</sub>

- (You will choose your Select programs at the appropriate time) \_\_\_\_\_

## Other

- Custom technical solution Subject: \_\_\_\_\_
- Public Gas R&D Investment Pool (Contact APGA for details) 34,195
- Place in hold account for future direction \_\_\_\_\_

Total

\$ 34,195

Please return this completed form to:

Ron Edelstein  
Director, Sales and Marketing  
GTI  
1700 South Mount Prospect Road  
Des Plaines, IL 60018

Phone: 847/768-0898  
FAX: 847/769-0501  
E-mail: [redelste@gri.org](mailto:redelste@gri.org)

# **Jackson Utility Division**

**FAX TRANSMITTAL**

April 6, 2001

(Date)

**To:** Ron Edelstein

**Company:** GTI

**FAX No.:** (847) 768-0501

**From:** Charlie Crockarell

**Telephone:** (731) 422-7206

**FAX No.:** (731) 422-7221

**Pages sent (including this sheet):** 3

Please call 901/422-7208 if you did not receive all pages or if you have a question.

## Company Allocation Form (for 2000)

Company Name: Jackson Utility Division

Company Address: P.O. Box 68, Jackson, TN 38302-0068

Contact Name: Charlie Crockarell Title: Sr.Vice Pres.-Gas System

Signature: Chloe Swadlow

Phone: (731) 422-7206 FAX: (731) 422-7221 Email: ccrock@jud.com

Estimated 2000 Non-FERC Funding	\$ 34,195
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Please indicate the amount of non-FERC funding for 2000 that you wish to allocate among the following investment options.

## Investment Options (indicate allocation for each)

GRI Non-FERC LDC R&D Mutual Funds (anchor level, principal level, minimum level)

- Reducing Barriers to Residential & Commercial Markets (\$141,000, \$70,500, \$1,000) \$ \_\_\_\_\_
- Residential/Commercial Customer Growth (\$243,000, \$121,500, \$1,000) \_\_\_\_\_
- Cost-Saving O&M Practices (\$174,000, \$87,000, \$1,000) \_\_\_\_\_
- Environmental Solutions (\$96,000, \$48,000, \$1,000) \_\_\_\_\_
- Cost-Effective Pipe Installation (\$102,000, \$51,000, \$1,000) \_\_\_\_\_
- Gas Supply and Resource Planning (\$147,000, \$73,500, \$5,000) \_\_\_\_\_
- Operational Efficiencies for Combination Utilities (\$78,000, \$39,000, \$5,000) \_\_\_\_\_
- Cooling Solutions for Customer Choice (\$87,000, \$43,500, \$20,000) \_\_\_\_\_
- Creating Value with Natural Gas Vehicles (\$70,800, \$35,400, \$20,000) \_\_\_\_\_
- Identifying Opportunities in Distributed Generation Mkts. (\$180,000, \$90,000, \$20,000) \_\_\_\_\_
- Industrial Market Growth (\$185,400, \$92,700, \$20,000) \_\_\_\_\_

GRI Select<sup>SM</sup>

- GRI Select<sup>SM</sup>**
- (You will choose your Select programs at the appropriate time)

Other

- |   |               |
|---|---------------|
| <ul style="list-style-type: none"> <li>• Custom technical solution Subject: _____</li> <li>• Public Gas R&amp;D Investment Pool (Contact APGA for details)</li> <li>• Place in hold account for future direction</li> </ul> | <u>34,195</u> |
|---|---------------|

**Total**

\$ 34,195

**Please return this completed form to:**

**Ron Edelstein**  
**Director, Sales and Marketing**  
**GTI**  
**1700 South Mount Prospect Road**  
**Des Plaines, IL 60018**

Phone: 847/768-0898  
FAX: 847/769-0501  
E-mail: [redelste@gn.org](mailto:redelste@gn.org)

pel 4-10-71  
mb


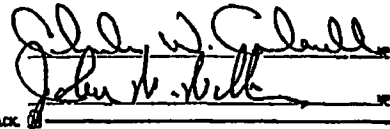
$\square c: SJ$   
 ~~$\square c: eE$~~

Bank of America  
Chicago

GAS RESEARCH INSTITU

DDA: 08666701229  
Lockbox: 0091806  
Date: 04/10/01 100  
Batch: 893 Item: 1  
Module: 40  
Machine Number: 10  
Operator Id: LETTA

Amt: \$34,195.00

	<b>Jackson Utility Division</b>	07-793 843	<b>068666</b>
	POST OFFICE BOX 999 JACKSON, TENNESSEE 38302-0999	FirstBank Jackson, TN	
		4/06/2001	68666
PAY EXACTLY THIRTY FOUR THOUSAND ONE HUNDRED NINETY FIVE DOLLARS AND 00/100			
TO THE ORDER OF:		AMOUNT \$34,195.00	
GAS TECHNOLOGY INSTITUTE LOCK BOX 91806 CHICAGO, IL 60693			
SECURITY FEATURES INCLUDED. DETAILS ON BACK.			
⑈068666⑈ ⑆081307033⑆ 311 273 6⑈ ⑆0003419500⑆			

"We want to be the people who make banking  
work for you in ways it never has before"

**JACKSON UTILITY DIVISION** JACKSON, TENNESSEE 38302-0999

VENDOR NO - 24132 GAS TECHNOLOGY INSTITUTE

34195 SUPPLEMENTAL GAS TECHNOLOGY INST FUNDING

34,195.00

68666

4/06/2001

34,195.00

PLEASE DETACH BEFORE DEPOSITING



Company Allocation Form (for 2001 and 2002)

Company Name: Memphis Light, Gas & Water

Company Address: P.O. Box 430 Memphis, TN 38101

Contact Name: Wade Stinson Title: VP, Constr & Maint

Signature: [Signature] Date: 1/26/2001

Phone: 901-528-4136 FAX: 901-528-4086 Email: WStinson@mlgw.org

Estimated 2001 Non-FERC Funding Use present hold account \$U.S. 330,000

Estimated 2002 Non-FERC Funding (\$420.5k) first. \$U.S. 330,000

Please indicate the amount of non-FERC funding for 2001 and 2002 that your company wishes to allocate among the following R&D investment options. Funds are subject to minimum allocations.

Investment Options (indicate allocation for each)

2001-2002 GTI RD&C Mutual Funds<sup>SM</sup> (anchor, principal, and minimum investor levels)

- ✓ Codes and Standards (\$180,000, \$90,000, \$25,000) \$U.S. 25,000
- ✓ Cooling Solutions for Customer Choice (\$100,000, \$50,000, \$25,000) \_\_\_\_\_
- ✓ Creating Value within the Natural Gas Vehicle Market (\$100,000, \$50,000, \$25,000) Funded (99-00)
- ✓ Emerging Technologies (SMP) Program 80,000  
(See write-up on net operating income formula to determine investment level)
- ✓ Environmental Solutions: Contaminants in Sediments (\$120,000, \$60,000, 25,000) \_\_\_\_\_
- ✓ Identifying Opportunities in Distributed Generation Markets 150,000  
(\$250,000 - Includes demo host site, \$150,00, \$75,000, \$25,000)
- ✓ Industrial Market: Technical Marketing/Sales Tools (\$200,000, \$100,000, \$25,000) \_\_\_\_\_
- ✓ Industrial Market: Demonstration Projects (\$200,000, \$100,000, \$25,000) \_\_\_\_\_
- ✓ Industrial Market: Highly Leveraged R&D Projects (\$200,000, \$100,000, \$25,000) \_\_\_\_\_
- ✓ Operations Technology Choices (\$300,000, \$300,000, \$50,000) 300,000
- ✓ Residential/Commercial Customer Opportunities (\$200,000, \$100,000, \$25,000) 25,000

GTI Select<sup>SM</sup>

- Subject(s): \_\_\_\_\_

Other Options

- Custom Technical Solution Subject(s): \_\_\_\_\_ 80,000
- Public Gas R&D Investment Pool (Contact APGA for details) \_\_\_\_\_
- Place in hold account for future designations (up to one year) \_\_\_\_\_

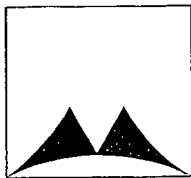
Total (2 year period)

\$U.S. 660,000

Please return this completed form to:

Ron Edelstein  
Director, Sales and Marketing  
GTI  
1700 South Mount Prospect Road  
Des Plaines, IL 60018

Phone: 847/768-0898  
FAX: 847/768-0501  
E-mail: ron.edelstein@gastechnology.org



MEMPHIS LIGHT, GAS AND WATER DIVISION

WADE STINSON  
Vice President, Construction and Maintenance

September 5, 2001

Mr. Ron Edelstein  
Gas Technology Institute  
1700 South Mount Prospect Rd.  
Des Plaines, IL 60018-1804

Dear Ron:

Please accept this as authorization to transfer \$15,000.00 from Memphis Light, Gas and Water's hold account to cover the Phase I Environmental Site Assessment work described in the letter proposal submitted by Mr. Vipul J. Srivastava of GTI dated August 24, 2001.

If you have questions, please contact me at 901-528-4136.

Sincerely,

Wade Stinson

th

cc: Gene Crawford, MLGW  
Vipul J. Srivastava, GTI



**Susan Jefferis**

08/21/2001 11:37 AM

To: Ron Edelstein/GRI@GRI

cc:

Subject: Memphis

Select should be \$58,500 => \$36k for G2TA and \$22.5 for E&R.

NOV-14-00 TUE 03:12 PM MIDDLE TENN NATURAL GAS

FAX NO. 1 615 597 6331

P.03

MGSAC Allocation Form (for 2001 and 2002)

Date: 11/15/00Company Name: Middle Tennessee Natural Gas Utility DistrictSystem Address: P. O. Box 670Contact Name: Leslie B. Enoch, IITitle: Executive Vice President &  
Chief Executive OfficerSignature: Phone: 615 / 597-4300FAX: 615 / 597-6331Email: l\_enoch@mtng.com

2001 R&amp;D Funding

\$ 29,994

2002 R&amp;D Funding

\$ 43,904

Please indicate the amount of R&D funding for 2001 and 2002 that your system will allocate among the following investment options.

Investment Options (indicate allocation for each)	2001	2002
<b>GTI LDC R&amp;D Mutual Funds</b>		
✓ Codes and Standards	\$ _____	\$ _____
✓ Cooling Solutions for Customer Choice	\$ _____	\$ _____
✓ Gas Forecasting and Resource Planning	\$ _____	\$ _____
✓ Identifying Opportunities in Distributed Generation Mkts.	\$ _____	\$ _____
✓ Industrial Market Technology Demonstrations	\$ _____	\$ _____
✓ Manufactured Gas Plants Solutions	\$ _____	\$ _____
✓ Operations Technology Choices	\$ _____	\$ _____
✓ Residential/Commercial Customer Growth	\$ _____	\$ _____
✓ SMP Emerging Technologies Program	\$ _____	\$ _____
<b>GTI Select-</b>		
• Subject(s): _____	\$ _____	\$ _____
<b>Other</b>		
• Custom Technical Solution Subject(s): _____	\$ _____	\$ _____
• Public Gas R&D Investment Pool	\$ <u>29,994</u>	\$ <u>43,904</u>
• Place in hold account for future direction	\$ _____	\$ _____

Total

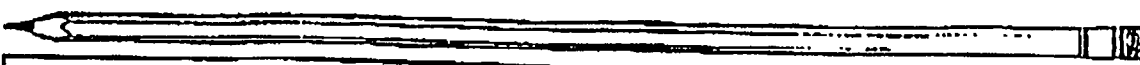
\$ 29,994\$ 43,904

Please return this completed form to:

Chris Flood  
Customer Relations Manager  
Municipal Systems  
APGA /GTI  
11094-D Lee Highway  
Fairfax, VA 22030-5014

703-352-3890  
703-352-1271 (fax)





CITY OF BROWNSVILLE UTILITY DEPARTMENT  
25 NORTH LAFAYETTE  
P. O. BOX 424  
BROWNSVILLE, TN 38012  
901-772-8845 PH  
901-772-8811 FAX

## NOTES:

FAX TO: Chris Flood RON EDELSTEIN

AT: \_\_\_\_\_

FROM: John Sharpe# OF PAGES: 2

neto ↑

## Company Allocation Form (for 1999 and 2000)

Company Name: BROWNSVILLE UTILITIESCompany Address: P.O. Box 424 - BROWNSVILLE, TN. 38012Contact Name: JOHN F. SWARPETitle: GEN. MANAGERPhone: 901-772-8845 FAX: 901-772-8811 E-mail: budutil@AENEAS.NET

Estimated 1999 Non-FERC Funding

\$ 600.<sup>00</sup>

Estimated 2000 Non-FERC Funding

\$ 1250.<sup>00</sup>

Please indicate the amount of non-FERC funding for 1999 and 2000 that you wish to allocate among the following investment options. We advocate that you designate at least 40% toward the Non-FERC LDC R&D Mutual Funds. The balance may be directed into additional Non-FERC LDC R&D Mutual Funds, GRI Select<sup>SM</sup> programs, a custom technical solution, the Public Gas R&D Investment Pool—or it may be held for your future designation (up to one year). Funds are subject to minimum allocations.

## Investment Options (indicate allocation for each)

## GRI Non-FERC LDC R&amp;D Mutual Funds (minimum allocation)

- Reducing Barriers to Residential and Commercial Markets (\$1,000) \$ \_\_\_\_\_
- Residential/Commercial Customer Growth (\$1,000) \_\_\_\_\_
- Cost-Saving O&M Practices (\$1,000) \_\_\_\_\_
- Environmental Solutions (\$1,000) \_\_\_\_\_
- Cost-Effective Pipe Installation (\$1,000) \_\_\_\_\_
- Gas Supply and Resource Planning (\$5,000) \_\_\_\_\_
- Operational Efficiencies for Combination Utilities (\$5,000) \_\_\_\_\_
- Cooling Solutions for Customer Choice (\$20,000) \_\_\_\_\_
- Creating Value with Natural Gas Vehicles (\$20,000) \_\_\_\_\_
- Identifying Opportunities in Distributed Generation Markets (\$20,000) \_\_\_\_\_
- Industrial Market Growth (\$20,000) \_\_\_\_\_

GRI Select<sup>SM</sup>

(You will choose your Select programs at the appropriate time) \_\_\_\_\_

## Other

- Custom technical solution Subject: \_\_\_\_\_
- Public Gas R&D Investment Pool (Contact APGA for details) 100%
- Hold in account for future direction \_\_\_\_\_

Total (2 years)

\$ \_\_\_\_\_

Please return this completed form to:

Tina Thomas

Managing Director, LDC Marketing

Gas Research Institute

Washington Operations

1600 Wilson Boulevard, Suite 900

Arlington, VA 22209-2505

703/526-7828

FAX: 703/526-7805 703-526-7805

E-mail: [cthomas@gri.org](mailto:cthomas@gri.org)GRI/Net Website: [www.gri.org](http://www.gri.org)

# CITY OF BROWNSVILLE

## UTILITY DEPARTMENT

ELECTRIC / GAS / WATER DIVISIONS

25 NORTH LAFAYETTE - P. O. BOX 424 - BROWNSVILLE, TENNESSEE 38012 - PHONE 772-8845

January 25, 1999

Texas Gas Transmission Corporation  
P.O. Box 20008  
Owensboro, Kentucky 42304-0008

Dear:

As you are aware, public gas system members of the Gas Research Institute (GRI) have approached GRI inquiring how they can continue to fund GRI. It is my understanding that as part of the FERC Settlement your company has agreed to act as a voluntary collection agent for customers that want to continue contributing to GRI and to include this on the pipeline invoice via the "check the box" system outlined below.

It is our understanding that each customer would make an election as to the voluntary contributions they would like to make to GRI's Research and Development Program and these collections would be collected through your invoices.

Brownsville Utility Department would like to participate in the "check the  
(INSERT COMPANY NAME)  
box" program.

Please invoice us at: (initial all applicable choices)

<input checked="checked" type="checkbox"/>	The one part rate of 2¢/Dth for my applicable volumes.
<input type="checkbox"/>	The two part rate of 16¢/Dth demand charge and 0.88¢/Dth commodity charge on my FTS, ITS and NNS volumes. (Low load factor customers)
<input type="checkbox"/>	The two part rate of 26¢/Dth demand charge and 0.88¢/Dth commodity charge on my FTS, ITS and NNS volumes. (High load factor customers)
<input type="checkbox"/>	Invoice me at \$ _____/month (fixed amount designated by the customers).
<input type="checkbox"/>	Do not invoice me for any R&D contributions at this time.



# CITY OF BROWNSVILLE

## UTILITY DEPARTMENT

ELECTRIC / GAS / WATER DIVISIONS

25 NORTH LAFAYETTE - P. O. BOX 424 - BROWNSVILLE, TENNESSEE 38012 - PHONE 772-8845

I would like for these contributions to be: (initial one)

<input checked="checked" type="checkbox"/>	Effective retroactive to January 1, 1999.
<input type="checkbox"/>	Effective next billing period.

I understand that you will continue to collect and remit the GRI surcharge until notified by me in writing. Cancellations will be effective thirty (30) days from the first day of the month following your receipt of the cancellation notification.

The appropriate R&D amount will be included as part of the monthly invoice. You will collect and remit these funds to GRI with a cover letter listing the amount of contributions by customer. My voluntary contributions will be applied to GRI's dispersed and targeted R&D programs as directed by my company through GRI's LDC R&D Mutual Fund Program.

Sincerely,

Brownsville Utility -  
[Signature]  
Signature

1-27-99  
Date

Gen. Manager  
Title

cc: Tina Thomas, GRI

11/29/00



To: wstinson@mlgw.org  
cc: Marlon McClinton/GRI@GRI, Laura Brozowski/GRI@GRI (bcc: Ron Edelstein/GRI)  
Subject: Visit Follow-up

Wade,

Thank you for your time yesterday and the opportunity to report to key MLGW executive personnel on the status of MLGW investments in GTI's Program. Please review and confirm the following commitments agreed to as a result of our meeting yesterday.

✓ 1. MLGW Investment of \$36,000 in G2TA over a two-year period (\$18,000/year) utilizing funds currently residing in MLGW 1999-2000 Non- FERC Mutual Fund Hold Account

✓ 2. Increase MLGW position in 1999-2000 Non- FERC Mutual Fund "Identifying Opportunities In Distributed Generation Markets" to Anchor position  
Anchor position investment is \$180,000 (10% of total fund price of \$1,800,000).  
MLGW is currently participating at the investor level \$20,000 which results in MLGW increasing it's investment by \$160,000 utilizing funds residing in MLGW Hold Account.  
\* Please note that additional investment may be necessary should a field test demonstration be conducted in MLGW service area

✓ 3. Re-allocate \$1,000 from Cost Effective Pipe Installation Fund to Cost Saving O&M Practices Fund.

4. GTI follow-up visit to MLGW the week of January 22, 2001 to present 2001-2002 Non- FERC Mutual Fund Investment Opportunities and complete MLGW 2001-2002 allocations

Thank you again for your time and continued support of GTI. We look forward to our return visit in January!

Sincerely,

Chris Flood  
(703)352-3890

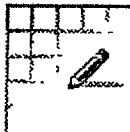
Only \$20K  
ON SPREADSHEET

cc: "Gene Crawford" <gcrawford@mlgw.org>  
Subject: Re: COFUNDING PARTICPATION for Integrity Requirements for Natural Gas Pipelines Operating below 30% SMYS in High Consequence Area

\*\* High Priority \*\*

Doug,  
MLGW would like to participate. Please take our \$5,000 from the voluntary contributions that are regularly submitted. All of our contributions are voluntary since we do not pay the GTI surcharge in our gas purchases. We contribute \$400,000 per year currently in quarterly installments of \$100K each. Please advise if you have questions. My phone number is 901-528-4136.  
Thanks, Wade Stinson, MLGW

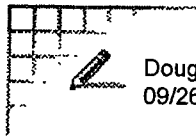
Chris Flood

 Chns Flood  
09/25/2000 10 35 AM


To: Doug Kosar/GRI@GRI  
cc:  
Subject: Re: COFUNDING PARTICPATION for Integrity Requirements for Natural Gas Pipelines Operating below 30% SMYS in High Consequence Area 

Doug please keep me informed as to the status of the project and funders specifically MLGW involvement

Spearate item , following our meeting with Cheryl Trench at AGA she was going to pass along incident data electronically following the meeting Has that been received? If so, please forward a copy to me-  
Thanks Chris



Doug Kosar  
09/26/2000 11:09 AM

To: Chris Flood/GRI@GRI  
cc: Ron Edelstein/GRI@GRI, ctrench@concentric.net, Paul Beckendorf/GRI@GRI, Cindy Wiater/GRI@GRI  
Subject: Re. COFUNDING PARTICIPATION 30% SMYS, Safety Performance, and DPAG 

Chris,

Below is MLGW's positive response on cofunding the 30% SMYS work. Please coordinate with Ron E. (and whomever back at GTI) to make this allocation happen from one of your customers (allocate it to 171401 as cofunding).

Feel free to contact Cheryl Trench directly on coordinating the muni data set on the safety performance work

Cheryl's phone # 212/787-6923, fax #. 212/721-9028; e-mail above

Regarding your DPAG invitees below, please extend the invitation to your customers yourself by forwarding my earlier e-mail announcement with any introductory text you may wish to add. I only asked that the RCRMs notify me advance so I can approve the invitations you would like to extend (I want to manage the number of attendees to avoid too large a crowd)

Municipal Gas Authority of Georgia  
Contact - Chris Strippelhoff  
Vice President, Member Services - (he is contact for their voluntary funding  
104 TownPark Drive  
Kennesaw, Georgia 30144  
770-590-1000 x104  
770-425-3372 (fax)  
cstrippelhoff@gas-authority.com

Austell Natural Gas System  
Contact - Gerald Harmon  
General Manager  
2838 Washington Street S W  
Austell, GA 30168  
770/948-1841 x 3110  
770/948-1910 (fax)  
geraldh@austellgas.com

Thanks,  
Doug



"Wade Stinson" <wstinson@mlgw.org> on 09/20/2000 05:05:12 PM

To: <doug.kosar@gastechnology.org>

## Company Nomination Form

Company Name: Memphis Light, Gas & WaterCompany Address: P.O. Box 430 Memphis, TN 38101Contact Name: Wade StinsonTitle: Vice President, Construction & MaintenancePhone: 901-528-4136 FAX: 901-528-4086 E-mail: wstinson@mlgw.org

Estimated 1999 Non-FERC Funding

\$ 400,000

Estimated 2000 Non-FERC Funding

\$ 400,000

Please indicate the amount of non-FERC funding for 1999 and 2000 that you wish to allocate among the following investment options. We advocate that you designate at least 40% toward the Non-FERC LDC R&D Mutual Funds. The balance may be directed into additional Non-FERC LDC R&D Mutual Funds, GRI Select<sup>SM</sup> programs, a custom technical solution, the Public Gas R&D Investment Pool—or it may be held for your future designation (up to one year). Funds are subject to minimum allocations.

## Investment Options (Indicate allocation for each)

## GRI Non-FERC LDC R&amp;D Mutual Funds (minimum allocation)

• Reducing Barriers to Residential and Commercial Markets (\$1,000)		\$ <u>1,000</u>
• Residential/Commercial Customer Growth (\$1,000)		<u>1,000</u>
• Cost-Saving O&M Practices (\$1,000)	(10%)	<u>174,000</u>
• Environmental Solutions (\$1,000)		<u>1,000</u>
• Cost-Effective Pipe Installation (\$1,000)	(5%)	<u>73,500</u>
• Gas Supply and Resource Planning (\$5,000)		<u>20,000</u>
• Operational Efficiencies for Combination Utilities (\$5,000)		<u>20,000</u>
• Cooling Solutions for Customer Choice (\$20,000)		<u>20,000</u>
• Creating Value with Natural Gas Vehicles (\$20,000)		<u>20,000</u>
• Identifying Opportunities in Distributed Generation Markets (\$20,000)		<u>20,000</u>
• Industrial Market Growth (\$20,000)		<u>20,000</u>

GRI Select<sup>SM</sup>

(You will choose your Select programs at the appropriate time)

(Excavation/restoration project - already participating) 90,000 P

## Other

- Custom technical solution 80,000
- Public Gas R&D Investment Pool (Contact APGA for details) 320,500
- Hold in account for future direction

Total (2 years)

\$ 800,000

Please return this completed form to:  
 Tina Thomas  
 Regulatory Affairs  
 Gas Research Institute  
 Washington Operations  
 1600 Wilson Boulevard, Suite 900  
 Arlington, VA 22209-2505

703/526-7828  
 FAX: 703/526-7805  
 E-mail: cthomas@gri.org  
 GRI/Net Website: www.gri.org

22500 sum. 11/1/01



## MEMPHIS LIGHT, GAS AND WATER DIVISION

WADE STINSON  
Vice President, Construction and Maintenance

March 30, 1999

Ms. Tina Thomas  
Regulatory Affairs  
Gas Research Institute  
Washington Operations  
1600 Wilson Blvd., Suite 900  
Arlington, VA 22209-2205

Dear Tina:

Attached is Memphis Light, Gas, and Water Division's nomination form for non-FERC funding of gas system research and development in the years 1999 and 2000. Please realize that this form expresses MLGW's intent at this time, but is non-binding until we have obtained necessary approvals to expend funds. The exception to this is the GRI Select project on Excavation/Restoration Best Practices that we are presently participating in.

We can discuss further in Chicago next week.

Sincerely,

Wade Stinson

WS:sr

Attachment

APR-19-00 WED 03:19 PM MIDDLE TENN NATURAL GAS

FAX NO. 1 615 597 6331

P.01/04

MIDDLE TENNESSEE NATURAL GAS  
UTILITY DISTRICT

## FACSIMILE TRANSMITTAL SHEET

TO	FROM
Margie Gonzalez	Leslie B. Enoch, II
COMPANY:	DATE
Gas Research Institute	04/19/00
FAX NUMBER:	TOTAL NO. OF PAGES INCLUDING COVER
773/399-8170	4
RE.	CC.
GRI Non-FERC Funding	Christopher Flood, APGA
	703/352-1271

☐ URGENT ☒ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

The "Statement of Funding and Allocations" (Attachment "A") passed out at the April MGSAC meeting was incorrect. Middle Tennessee Natural Gas did not commit to make any Non-FERC contributions in 1998. We agreed to make Non-FERC contributions of \$7,500 in 1999 and \$15,500 in calendar year 2000. See Nomination Form (Attachment "B") dated January 21, 1999 for calendar years 1999 and 2000.

A Summary of GRI Non-FERC payments to East Tennessee Natural Gas (Attachment "C") reflects that we paid \$7,557.00 in 1999 and we will pay \$15,316.82 in 2000. These contributions are in addition to our regular contributions pursuant to the FERC settlement agreement.

If you have any questions, please call me.

P. O. BOX 670  
SMITHVILLE, TN 37166  
615/597-4300  
615/597-6331 (FAX)  
L\_ENOCH@MTNG.COM

APR-19-00 WED 03:20 PM

MIDDLE TENN NATURAL GAS

FAX NO. 1 615 597 8331

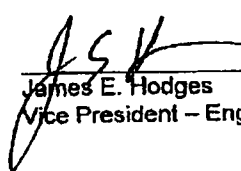
P.04/04

**MIDDLE TENNESSEE NATURAL GAS****MEMORANDUM****DATE:** April 13, 2000**TO:** Mr. Leslie B. Enoch, II  
Executive Vice President &  
Chief Executive Officer**SUBJECT:** MTNG - GRI VOLUNTARY PAYMENTS  
(ETNG - Δ)

My GRI records indicate the following actual and planned payments to GRI:

	1999		2000	
January	817.00 ✓	Paid	1,635.14	Paid ✓ 2/13/00
February	817.00 ✓	Paid	1,635.14	Paid ✓ 2/13/00
March	817.00 ?	Paid	1,635.14	✓ 7/00
April	496.00 ✓	Paid	1,020.16	✓ 7/00
May	496.00 ✓	Paid	1,020.16	✓ 8/00 2655 30 /
June	496.00 ✓	Paid	1,020.16	✓ 9/00
July	496.00 ✓	Paid	1,020.16	✓ 10/00
August	496.00 ✓	Paid	1,020.16	✓ 11/00
September	496.00 ✓	Paid	1,020.16	✓ 12/00
October	496.00 ✓	Paid	1,020.16	✓ 1/01
November	817.00 ✓	Paid	1,635.14	✓ 1020
December	817.00 ✓	Paid	1,635.14	✓ 1020
<b>TOTAL</b>	<b>\$7,557.00</b>		<b>\$15,316.82</b>	

1229 96  
1020 12  
250 12

  
 James E. Hodges  
 Vice President - Engineering

JEH/jkc

copy Chris Tramel



**MIDDLE TENNESSEE NATURAL GAS UTILITY DISTRICT**

LESLIE B. ENOCH, II  
EXECUTIVE VICE PRESIDENT  
AND CHIEF EXECUTIVE OFFICER

December 23, 1998

P O BOX 670 • 1030 WEST BROAD ST  
SMITHVILLE TENNESSEE 37166  
(615) 597-4300 • FAX (615) 597 6331

Via Facsimile 713/420-3193

Mr. Jay Dickerson  
East Tennessee Natural Gas  
P. O. Box 2511  
Houston, TX 77252-2511

Dear Jay:

Middle Tennessee Natural Gas Utility District (the District) will make a voluntary contribution to the Gas Research Institute (GRI).

The District understands that pursuant to the GRI settlement in Docket RP97-149, et al, the GRI surcharges will be reduced over a five-year period beginning January 1, 1999. The District also understands that East Tennessee Natural Gas Company (East Tennessee) has agreed to permit its customers to "check the box" and designate additional amounts to be collected to benefit GRI's efforts in research and development.

The District hereby requests that East Tennessee continue to bill the demand surcharge at the current level until advised otherwise and to lower the commodity surcharge in accordance with the settlement agreement on an ongoing basis. It is the District's intention to be a low demand surcharge customer effective January 1, 1999; however, we recognize that the load factor calculation will depend on actual results for calendar year 1998. At this time, the District does not propose to designate a specific research and development program for this additional contribution.

In summary, the District requests that East Tennessee collect, through its billing process, the difference between the settlement demand surcharge and the current demand surcharge and forward same to GRI along with the amounts associated with the reduced commodity surcharge.

If you have any questions, please give me a call.

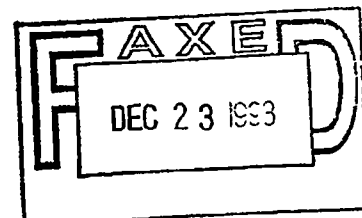
Sincerely,

  
Leslie B. Enoch, II

LBE,II/bg

cc: James E. Hodges  
Middle Tennessee Natural Gas

Chris Flood  
American Public Gas Association



## MIDDLE TENNESSEE NATURAL GAS MEMORANDUM

DATE: July 10, 1998

TO: File Notes

SUBJECT: Estimated GRI Costs - Fiscal Year 1998

The following are our estimated GRI - ETNG payments for 1998

Commodity	6,704,610	X	.0088	=	\$59,000 57
FT-A (ETNG)	27,572	X	.16	X 12 months	= \$52,938 24
FT-LNG (ETNG)	16,621	X	.16	X 5 months	= \$13,296 80
FT-A (Winter only)	1,193	X	.16	X 5 months	= \$954.40
Total				=	<u>\$126,190.01</u>



James E. Hodges

Vice President of Engineering

JEH/cly

APR-19-00 WED 03:19 PM

MIDDLE TENN NATURAL GAS

FAX NO. 1 615 597 6331

P. 02/04

# Statement of Funding and Allocations \*

as of December 31, 1999

## Middle Tennessee Nat Gas Utility Dist\*\*

1030 W. Broad Street, P.O. box 670

Smithville, TN 37166

Allocation contact: Leslie B. Enoch II, Executive Vice President &amp; CEO

Financial contact:

Estimated 1998 Non-FERC Funding

\$7,500.00

Estimated 1999 Non-FERC Funding

\$15,500.00

Estimated 2000 Non-FERC Funding

## Funding Received

As of December 31, 1999

Date	Amount Received	Collection Period
03/01/1999	\$817.00	10/01/1999
05/01/1999	\$817.00	11/01/1999
6/1-9/1/98 4 mo@ 496/mo	\$1,984.00	12/01/1999
10/01/1999	\$496.00	Aug99
<b>Total Received 1/1/98 -12/31/99</b>	<b>\$6,740.00</b>	

Adjustment

## Cumulative Funding Received

Pre 1998 Funds that were not considered allocable

Total Allocable funds received

\$6,740.00

\*\*Contributions are coming in from:  
East Tenn Interstate Pipeline

APR-19-00 WED 03:19 PM MIDDLE TENN NATURAL GAS FAX NO. 1 615 597 6331

P. 03/04

"B"

## Company Nomination Form

Company Name MIDDLE TENNESSEE NATURAL GAS UTILITY DISTRICT  
Company Address 1030 W. Broad Street, P. O. Box 670, Smithville, TN 37166  
Contact Name Leslie B. Enoch, II  
Title Executive Vice President & Chief Executive Officer  
Phone. (615) 597-4300 FAX. (615) 597-6331 E-mail \_\_\_\_\_

Estimated 1999 Non-FERC Funding \$ 7,500  
Estimated 2000 Non-FERC Funding \$ 15,500

Please indicate the amount of non-FERC funding for 1999 and 2000 that you wish to allocate among the following investment options. We advocate that you designate at least 40% toward the Non-FERC LDC R&D Mutual Funds. The balance may be directed into additional Non-FERC LDC R&D Mutual Funds, GRI Select™ programs, a custom technical solution, the Public Gas R&D Investment Pool—or it may be held for your future designation (up to one year). Funds are subject to minimum allocations

## Investment Options (indicate allocation for each)

GRI Non-FERC LDC R&amp;D Mutual Funds (minimum allocation)

- Reducing Barriers to Residential and Commercial Markets (\$1,000) \$ \_\_\_\_\_
- Residential/Commercial Customer Growth (\$1,000) \_\_\_\_\_
- Cost-Saving O&M Practices (\$1,000) \_\_\_\_\_
- Environmental Solutions (\$1,000) \_\_\_\_\_
- Cost-Effective Pipe Installation (\$1,000) \_\_\_\_\_
- Gas Supply and Resource Planning (\$5,000) \_\_\_\_\_
- Operational Efficiencies for Combination Utilities (\$5,000) \_\_\_\_\_
- Cooling Solutions for Customer Choice (\$20,000) \_\_\_\_\_
- Creating Value with Natural Gas Vehicles (\$20,000) \_\_\_\_\_
- Identifying Opportunities in Distributed Generation Markets (\$20,000) \_\_\_\_\_
- Industrial Market Growth (\$20,000) \_\_\_\_\_

GRI Select™

(You will choose your Select programs at the appropriate time) \_\_\_\_\_

Other

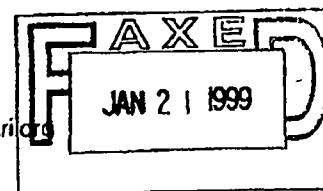
- Custom technical solution \_\_\_\_\_
- Public Gas R&D Investment Pool (Contact APGA for details) \$ 23,000
- Hold in account for future direction \_\_\_\_\_

Total (2 years) \$ 23,000

Please return this completed form to.

Tina Thomas  
Regulatory Affairs  
Gas Research Institute  
Washington Operations  
1600 Wilson Boulevard, Suite 900  
Arlington, VA 22209-2505

703/526-7828  
FAX 703/526-7805  
E-mail. [cthomas@gri.org](mailto:cthomas@gri.org)  
GRI/Net® Website: [www.gri.org](http://www.gri.org)



# facsimile

## TRANSMITTAL

---

to: RON EDELSTEEN  
fax: 773-864-3466  
date: 11/15/00  
pages: 2 (including cover sheet)

---

Please see attached.

from the desk of...

**CHRIS FLOOD**

American Public Gas Association  
11094-D Lee Highway, Suite 102  
Fairfax, VA 22030  
Tel: (703) 352-3890  
Fax: (703) 352-1271  
E-mail: cflood@apga.org

DEC 0 3/12

## Company Nomination Form

Company Name MIDDLE TENNESSEE NATURAL GAS UTILITY DISTRICTCompany Address: 1030 W. Broad Street, P. O. Box 670, Smithville, TN 37166Contact Name: Leslie B. Enoch, IITitle: Executive Vice President & Chief Executive OfficerPhone: (615) 597-4300FAX: (615) 597-6331

E-mail: \_\_\_\_\_

Estimated 1999 Non-FERC Funding

Estimated 2000 Non-FERC Funding

\$ 7,500\$ 15,500

Please indicate the amount of non-FERC funding for 1999 and 2000 that you wish to allocate among the following investment options. We advocate that you designate at least 40% toward the Non-FERC LDC R&D Mutual Funds. The balance may be directed into additional Non-FERC LDC R&D Mutual Funds, GRI Select<sup>SM</sup> programs, a custom technical solution, the Public Gas R&D Investment Pool—or it may be held for your future designation (up to one year). Funds are subject to minimum allocations.

## Investment Options (indicate allocation for each)

GRI Non-FERC LDC R&amp;D Mutual Funds (minimum allocation)

- Reducing Barriers to Residential and Commercial Markets (\$1,000)
- Residential/Commercial Customer Growth (\$1,000)
- Cost-Saving O&M Practices (\$1,000)
- Environmental Solutions (\$1,000)
- Cost-Effective Pipe Installation (\$1,000)
- Gas Supply and Resource Planning (\$5,000)
- Operational Efficiencies for Combination Utilities (\$5,000)
- Cooling Solutions for Customer Choice (\$20,000)
- Creating Value with Natural Gas Vehicles (\$20,000)
- Identifying Opportunities in Distributed Generation Markets (\$20,000)
- Industrial Market Growth (\$20,000)

\$ \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

GRI Select<sup>SM</sup>

(You will choose your Select programs at the appropriate time)

Other

- Custom technical solution
- Public Gas R&D Investment Pool (Contact APGA for details)
- Hold in account for future direction

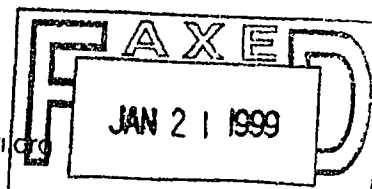
\$ 23,000

Total (2 years)

\$ 23,000

Please return this completed form to:  
Tina Thomas  
Regulatory Affairs  
Gas Research Institute  
Washington Operations  
1600 Wilson Boulevard, Suite 900  
Arlington, VA 22209-2505

703/526-7828  
FAX: 703/526-7805  
E-mail: [cthomas@gri.org](mailto:cthomas@gri.org)  
GRI/Net Website: [www.gri.org](http://www.gri.org)



\*Public Gas Hold Investment Pool (Contact AGU for details)

•Hold in account for future direction

---

Total (2 years)

\$ 23,000

Please return this completed form to:

Tina Thomas

703/526-7828

Regulatory Affairs

FAX: 703/526-7805

Gas Research Institute

E-mail: [cthomas@gri.org](mailto:cthomas@gri.org)

Washington Operations

GRI/Net® Website: [www.gri.org](http://www.gri.org)

1600 Wilson Boulevard, Suite 900

Arlington, VA 22209-2505

MAR-12-99 FRI 10:45 AM MIDDLE TENN NATURAL GAS

1 615 597 6331

FAX NO. 1 615 597 6331

P. 01

Middle Tennessee Natural Gas  
P. O. Box 670  
Smithville, TN 37166  
615/597-4300  
615/597-6331 (Fax)

facsimile transmittal

To: Mr. Chris Flood  
American Public Gas Association

Fax: 703/352-1271

From: Leslie B. Enoch, II

Date: 03/12/99

Re: GRI

Pages: 2 (Including Cover)

☒ FYI

☐ For Review

☐ Please Comment

☐ Please Reply

☐ Please Recycle

The form we faxed to Tina Thomas on January 21, 1999 follows.



MIDDLE TENNESSEE NATURAL GAS  
UTILITY DISTRICT

## FACSIMILE TRANSMITTAL SHEET

TO	FROM
Margie Gonzalez	Leslie B. Enoch, II
COMPANY	DATE
Gas Research Institute	04/19/00
FAX NUMBER	TOTAL NO. OF PAGES INCLUDING COVER
773/399-8170	4
RE:	CC:
GRI Non-FERC Funding	Christopher Flood, APGA
	703/352-1271

☐ URGENT ☒ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

The "Statement of Funding and Allocations" (Attachment "A") passed out at the April MGSAC meeting was incorrect. Middle Tennessee Natural Gas did not commit to make any Non-FERC contributions in 1998. We agreed to make Non-FERC contributions of \$7,500 in 1999 and \$15,500 in calendar year 2000. See Nomination Form (Attachment "B") dated January 21, 1999 for calendar years 1999 and 2000.

A Summary of GRI Non-FERC payments to East Tennessee Natural Gas (Attachment "C") reflects that we paid \$7,557.00 in 1999 and we will pay \$15,316.82 in 2000. These contributions are in addition to our regular contributions pursuant to the FERC settlement agreement.

If you have any questions, please call me.

P. O. BOX 670  
SMITHVILLE, TN 37166  
615/597-4300  
615/597-6331 (FAX)  
L\_ENOCH@MTNG.COM

# **Statement of Funding and Allocations \*** as of December 31, 1999

## **Middle Tennessee Nat Gas Utility Dist\*\***

1030 W. Broad Street, P.O. box 670

Smithville, TN 37166

Allocation contact: Leslie B Enoch II, Executive Vice President & CEO

Financial contact:

Estimated 1998 Non-FERC Funding

\$7,500.00

Estimated 1999 Non-FERC Funding

\$15,500.00

Estimated 2000 Non-FERC Funding

## **Funding Received**

**As of December 31, 1999**

Date	Amount		Collection Period
	Received		
03/01/1999	\$817.00		10/01/1999
05/01/1999	\$817.00		11/01/1999
8/1-9/1/99 4 mo@ 496/mo	\$1,984.00		12/01/1999
10/01/1999	\$496.00		Aug99
<b>Total Received 1/1/98 -12/31/99</b>	<b>\$6,740.00</b>		
<b>Cumulative Funding Received</b>			
Adjustment			Pre 1998 Funds that were not considered allocable
	\$6,740.00		Total Allocable funds received

\*\*Contributions are coming in from:  
East Tenn Interstate Pipeline

"B"

## Company Nomination Form

Company Name MIDDLE TENNESSEE NATURAL GAS UTILITY DISTRICTCompany Address 1030 W. Broad Street, P. O. Box 670, Smithville, TN 37166Contact Name Leslie B. Enoch, IITitle: Executive Vice President & Chief Executive OfficerPhone: (615) 597-4300FAX: (615) 597-6331

E-mail: \_\_\_\_\_

Estimated 1999 Non-FERC Funding

\$ 7,500

Estimated 2000 Non-FERC Funding

\$ 15,500

Please indicate the amount of non-FERC funding for 1999 and 2000 that you wish to allocate among the following investment options. We advocate that you designate at least 40% toward the Non-FERC LDC R&D Mutual Funds. The balance may be directed into additional Non-FERC LDC R&D Mutual Funds, GRI Select<sup>SM</sup> programs, a custom technical solution, the Public Gas R&D Investment Pool—or it may be held for your future designation (up to one year). Funds are subject to minimum allocations.

## Investment Options (indicate allocation for each)

GRI Non-FERC LDC R&amp;D Mutual Funds (minimum allocation)

•Reducing Barriers to Residential and Commercial Markets (\$1,000)

\$ \_\_\_\_\_

•Residential/Commercial Customer Growth (\$1,000)

\_\_\_\_\_

•Cost-Saving O&amp;M Practices (\$1,000)

\_\_\_\_\_

•Environmental Solutions (\$1,000)

\_\_\_\_\_

•Cost-Effective Pipe Installation (\$1,000)

\_\_\_\_\_

•Gas Supply and Resource Planning (\$5,000)

\_\_\_\_\_

•Operational Efficiencies for Combination Utilities (\$5,000)

\_\_\_\_\_

•Cooling Solutions for Customer Choice (\$20,000)

\_\_\_\_\_

•Creating Value with Natural Gas Vehicles (\$20,000)

\_\_\_\_\_

•Identifying Opportunities in Distributed Generation Markets (\$20,000)

\_\_\_\_\_

•Industrial Market Growth (\$20,000)

\_\_\_\_\_

GRI Select<sup>SM</sup>

(You will choose your Select programs at the appropriate time)

\_\_\_\_\_

Other

•Custom technical solution

•Public Gas R&amp;D Investment Pool (Contact APGA for details)

\$ 23,000

•Hold in account for future direction

\_\_\_\_\_

Total (2 years)

\$ 23,000

Please return this completed form to:

Tina Thomas

Regulatory Affairs

Gas Research Institute

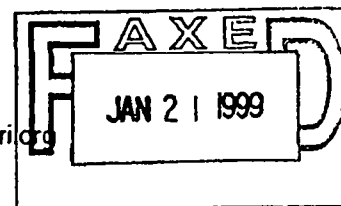
Washington Operations

1600 Wilson Boulevard, Suite 900

Arlington, VA 22209-2505

703/526-7828

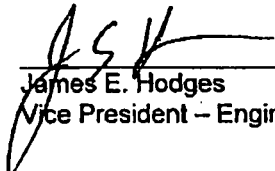
FAX: 703/526-7805

E-mail: [cthomas@gri.org](mailto:cthomas@gri.org)GRI/Net Website: [www.gri.org](http://www.gri.org)

**MIDDLE TENNESSEE NATURAL GAS****MEMORANDUM****DATE:** April 13, 2000**TO:** Mr. Leslie B. Enoch, II  
Executive Vice President &  
Chief Executive Officer**SUBJECT:** MTNG - GRI VOLUNTARY PAYMENTS  
(ETNG - Δ)

My GRI records indicate the following actual and planned payments to GRI:

	<u>1999</u>		<u>2000</u>	
January	817.00	Paid	1,635.14	Paid
February	817.00	Paid	1,635.14	Paid
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July	496.00	Paid	1,020.16	
August	496.00	Paid	1,020.16	
September	496.00	Paid	1,020.16	
October	496.00	Paid	1,020.16	
November	817.00	Paid	1,635.14	
December	817.00	Paid	1,635.14	
<b>TOTAL</b>	<u>\$7,557.00</u>		<u>\$15,316.82</u>	

  
James E. Hodges  
Vice President - Engineering

JEH/jkc

copy: Chris Tramel

# MIDDLE TENNESSEE NATURAL GAS UTILITY DISTRICT

LESLIE B. ENOCH, II  
EXECUTIVE VICE PRESIDENT  
AND CHIEF EXECUTIVE OFFICER

December 23, 1998

P O BOX 670 • 1030 WEST BROAD ST  
SMITHVILLE, TENNESSEE 37166  
(615) 597-4300 • FAX (615) 597-6331

Via Facsimile 713/420-3193

Mr. Jay Dickerson  
East Tennessee Natural Gas  
P. O. Box 2511  
Houston, TX 77252-2511

Dear Jay:

Middle Tennessee Natural Gas Utility District (the District) will make a voluntary contribution to the Gas Research Institute (GRI).

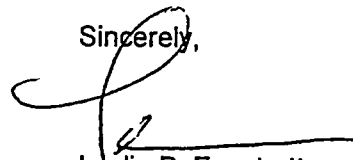
The District understands that pursuant to the GRI settlement in Docket RP97-149, et al, the GRI surcharges will be reduced over a five-year period beginning January 1, 1999. The District also understands that East Tennessee Natural Gas Company (East Tennessee) has agreed to permit its customers to "check the box" and designate additional amounts to be collected to benefit GRI's efforts in research and development.

The District hereby requests that East Tennessee continue to bill the demand surcharge at the current level until advised otherwise and to lower the commodity surcharge in accordance with the settlement agreement on an ongoing basis. It is the District's intention to be a low demand surcharge customer effective January 1, 1999; however, we recognize that the load factor calculation will depend on actual results for calendar year 1998. At this time, the District does not propose to designate a specific research and development program for this additional contribution.

In summary, the District requests that East Tennessee collect, through its billing process, the difference between the settlement demand surcharge and the current demand surcharge and forward same to GRI along with the amounts associated with the reduced commodity surcharge.

If you have any questions, please give me a call.

Sincerely,

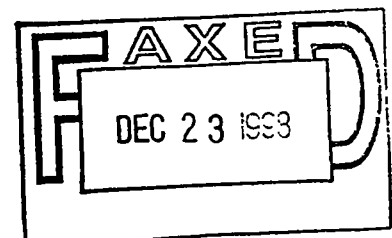


Leslie B. Enoch, II

LBE,II/bg

cc: James E. Hodges  
Middle Tennessee Natural Gas

Chris Flood  
American Public Gas Association



**BEFORE THE TENNESSEE REGULATORY AUTHORITY  
NASHVILLE, TENNESSEE**

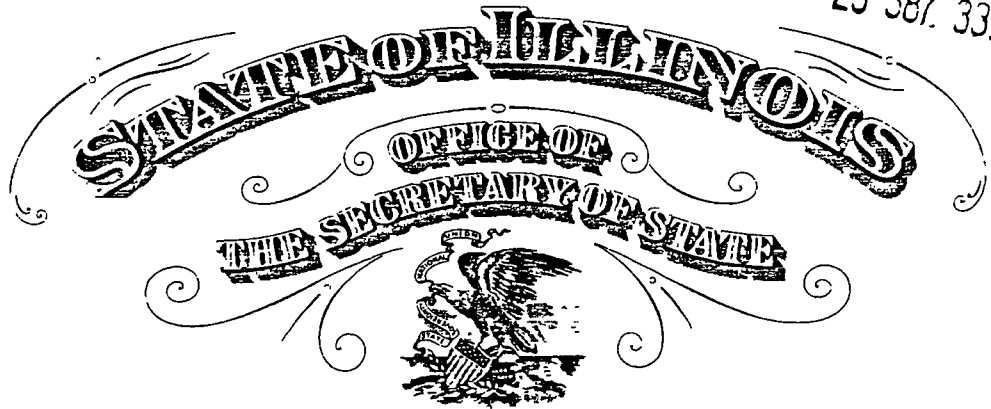
**IN RE:**

**PETITION OF CHATTANOOGA  
GAS COMPANY FOR APPROVAL  
OF ADJUSTMENT OF ITS RATES  
AND CHARGES AND REVISED TARIFF**

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**DOCKET NO. 04-00034**

**ATTACHMENT TO  
GAS TECHNOLOGY INSTITUTE'S RESPONSES TO  
CHATTANOOGA GAS COMPANY'S  
DATA REQUEST NO. 9**



**To all to whom these Presents Shall Come, Greeting:**

**Whereas,** *Articles of Incorporation* duly signed and verified of

GAS RESEARCH INSTITUTE

have been filed in the Office of the Secretary of State on the 8th day of July A. D. 1976, as provided by the "GENERAL NOT FOR PROFIT CORPORATION ACT" of Illinois, approved July 17, 1943, in force January 1, A. D. 1944.

Now Therefore, I, MICHAEL J. HOWLETT, Secretary of State of the State of Illinois, by virtue of the powers vested in me by law, do hereby issue this Certificate of Incorporation, and attach thereto a copy of the Articles of Incorporation of the aforesaid corporation.

**In Testimony Whereof,** I hereto set my hand and cause to be affixed the Great Seal of the State of Illinois

Done at the City of Springfield this 8th

day of July AD 1976 and

of the Independence of the United States the two hundred and 01st

Michael J. Howlett

SECRETARY OF STATE



**ARTICLES OF INCORPORATION  
UNDER THE  
GENERAL NOT FOR PROFIT CORPORATION ACT**  
(These Articles Must Be Filed in Duplicate)

(Do Not Write In This Space) C

Date Paid 7/18/76

Filing Fee \$ 25.00

Clerk FLL

To MICHAEL J. HOWLETT, Secretary of State, Springfield, Illinois.

We, the undersigned.

(Not less than three)

Name	Number	Street	Address City	State
H. R. Linden	3424	South State Street	Chicago,	Illinois
D. R. Dietrich	3424	South State Street	Chicago,	Illinois
R. O. Decker	3424	South State Street	Chicago,	Illinois

being natural persons of the age of twenty-one years or more and citizens of the United States, for the purpose of forming a corporation under the "General Not For Profit Corporation Act" of the State of Illinois, do hereby adopt the following Articles of Incorporation:

**GAS RESEARCH INSTITUTE**

- The name of the corporation is: perpetual
- The period of duration of the corporation is: perpetual  
(Please state "perpetual" or a definite number of years)
- The address of its initial Registered Office in the State of Illinois is: 3424 South State Street  
Street in the City of Chicago (60616) County of Cook and  
(Zip Code)  
the name of its initial Registered Agent at said Address is: R. O. Decker
- The first Board of Directors shall be seven (7) in number, their names and addresses being as follows:  
(Not less than three)

Name	Number	Street	Address City	State
W. J. Bowen	2703	South Post Oak Road	Houston,	Texas
B. J. Clarke	20	Montchanin Road	Wilmington,	Delaware
L. M. Liberman	720	Olive Street	St. Louis,	Missouri
H. R. Linden	3424	South State Street	Chicago,	Illinois
T. L. Pelican	P. O. Box 1087		Colorado Springs,	Colorado
P. E. Reichardt	1100	H Street, N. W.,	Washington,	D. C.
H. F. Steen	2727	Allen Parkway	Houston,	Texas

5. Purposes. The corporation is organized exclusively for scientific and educational purposes, including but not limited to the organization, financing, management and conduct of programs of research and development, either by itself or in participation with agencies of Federal, state and local government, industry, and other scientific and educational organizations, in the general areas of production, transmission, storage, distribution, utilization and conservation of natural and manufactured gases and related products and in the analysis, demonstration and dissemination of results derived from such research and development programs, in order to assist all segments of the gas industry in meeting the critical demands by the United States for energy and raw materials by providing adequate, reliable, safe, economical, and environmentally acceptable gas service to the benefit of the public.



6. No part of the assets, income, profits or net earnings of the corporation shall inure to the benefit of or be distributable to its members, directors, trustees, officers, or other private persons, except that the corporation shall be authorized and empowered to pay reasonable compensation for services rendered and to make payments and distributions in furtherance of its purposes as set forth in these Articles of Incorporation. No substantial part of the activities of the corporation shall be the carrying on of propaganda, or otherwise attempting to influence legislation, and the corporation shall not participate in, or intervene in (including the publishing or distributing of statements), any political campaign on behalf of any candidate for public office. Notwithstanding any other provision of these Articles of Incorporation, the corporation shall not carry on any other activities not permitted to be carried on by a corporation exempt from Federal income tax under Section 501(c)(3) of the Internal Revenue Code of 1954 (or the corresponding provisions of any future United States tax laws).

Upon the dissolution or final liquidation of the corporation, the board of directors shall, after paying or making provisions for the payment of all of the liabilities of the corporation, dispose of all of the assets of the corporation exclusively for the purposes of the corporation in such manner, or to such organization or organizations organized and operated exclusively for scientific or educational purposes and exempt from Federal income taxes under Section 501(c)(3) of the Internal Revenue Code of 1954 (or the corresponding provision of any future United States tax laws), as the board of directors shall determine.

(NOTE: Any special provision authorized or permitted by statute to be contained in the Articles of Incorporation, may be inserted above.)

(INCORPORATORS MUST SIGN BELOW)

*[Signatures of D. R. Dietrich and R. O. Decker]*  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Incorporators

#### ACKNOWLEDGMENT

STATE OF ILLINOIS,

County of Cook ss.

I, Joyce M. Levato, a Notary Public do hereby certify that on the  
7th day of July, 19 76 H. R. Linden,  
D. R. Dietrich, and R. O. Decker (Names of Incorporators)

personally appeared before me and being first duly sworn by me severally acknowledged that they signed the foregoing document in the respective capacities therein set forth and declared that the statements therein contained are true.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the day and year above written.



*[Signature of Joyce M. Levato]*  
\_\_\_\_\_  
Notary Public

FORM NP-29

ARTICLES OF INCORPORATION

under the

GENERAL NOT FOR PROFIT

CORPORATION ACT

of

GAS RESEARCH INSTITUTE

**FILED**

JUL 8 1976

*Michael J. Howlett*  
Secretary of State

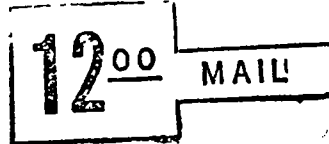
These Articles Must Be Executed and Filed in Duplicate

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12.1:



Certificate of  
Incorporation  
of



Ronald O. Becker  
Institute of Gas  
Technology  
3434 S. State St  
Chicago IL 60616

STATE OF ILLINOIS

Office of the

Secretary of State

23587333

Office of the Secretary of State  
STATE OF ILLINOIS  
I hereby certify that this is a true and  
correct copy, consisting of \_\_\_\_\_  
pages as taken from the original on file in  
this office.

*George H. Ryan*

GEORGE H. RYAN  
SECRETARY OF STATE



DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

STATE OF ILLINOIS  
Office of the Secretary of State

I hereby certify that this is a true and  
correct copy, consisting of four  
pages, as taken from the original on file in  
this office.



*George H. Ryan*

GEORGE H. RYAN  
SECRETARY OF STATE

DATED: March 12, 1998

BY: Sharon Thomas

**BEFORE THE TENNESSEE REGULATORY AUTHORITY  
NASHVILLE, TENNESSEE**

<b>IN RE:</b>	)	
	)	
<b>PETITION OF CHATTANOOGA</b>	)	
<b>GAS COMPANY FOR APPROVAL</b>	)	<b>DOCKET NO. 04-00034</b>
<b>OF ADJUSTMENT OF ITS RATES</b>	)	
<b>AND CHARGES AND REVISED TARIFF</b>	)	

**ATTACHMENT TO  
GAS TECHNOLOGY INSTITUTE'S RESPONSES TO  
CHATTANOOGA GAS COMPANY'S  
DATA REQUEST NO. 10**



**BY LAWS**  
**OF**  
**GAS TECHNOLOGY INSTITUTE**  
(adopted April 24, 2000)

**ARTICLE I: PURPOSES**

The corporation shall operate as a not-for-profit educational and scientific research organization of a character beneficial to the public and for such other purposes as set forth in the articles of incorporation.

**ARTICLE II: OFFICES**

The principal office shall be at such locations as the board of directors shall select, either in or outside the State of Illinois. The corporation may also have other offices at such other places either in or outside the State of Illinois as the board of directors shall determine.

**ARTICLE III: MEMBERS, PAYMENTS, AND VOTING RIGHTS**

**Section 3.1**    **Eligibility**

An individual, firm, association, or corporation which is a financial supporter of the corporation and who is a resident of or which is incorporated within the United States, Canada or Mexico is eligible for membership in the corporation. Members may be affiliated with one another in corporate or governmental organizations.

**Section 3.2**    **Liability**

The liability of members for financial support to the corporation and the term of membership shall be the subject of a written contract between the corporation and the member.

**Section 3.3**    **Member Representative**

Each Member other than an individual shall appoint an individual to serve as an Official Representative to represent the Member in business matters of the Corporation.

**Section 3.4**    **Payments by Members**

All members will pay annual dues as determined by resolution of the board of directors. Membership in the corporation shall not be denied solely because of any individual, firm, association or corporation's inability to pay membership dues. In negotiating membership agreements, the corporation may provide for a sliding scale of dues pursuant to the proposed member's ability to pay. For purposes of this paragraph, a party's ability to pay shall be that of the organization rather than a particular individual where the individual is seeking membership on behalf of the organization. Where an individual seeks membership on his or her behalf, ability to pay shall be determined by reference to that individual's ability to pay.

### Section 3.5 Payments Based on Gas Sales and Transportation Services

The obligations of the members to collect funding on gas sales and transportation services for the purpose of funding the research and development as provided for in an Order Approving Settlement issued by the Federal Energy Regulatory Commission on April 29, 1998 shall continue as provided for by that order.

### Section 3.6 Voting Rights of Members

- (1) Only members in good standing shall be entitled to vote.
- (2) On all matters submitted to the members for voting, all members shall have one vote.

### Section 3.7 Termination of Membership

The board of directors may terminate the membership of any member that is in default of any of its obligations of membership or in payments to the corporation.

### Section 3.8 Resignation of Members

A member may resign effective as of the end of any fiscal year by filing a written resignation with the secretary.

## ARTICLE IV: ASSOCIATE MEMBERS

Any individual, corporation, firm or governmental unit of a country other than the United States, Canada or Mexico or is a not-for-profit company or similar legal entity in any country may become an associate member. Such membership shall be for a renewable term of five years. Associate members shall agree to participate in appropriate cooperative programs designed to promote and facilitate the international exchange of scientific and educational information. Associate members shall pay uniform annual dues set by the board of directors. Such associate member shall have no voting rights but shall enjoy the advantages of associate membership as provided in the Associate Membership Agreement.

## ARTICLE V: MEETINGS

### Section 5.1 Annual Meeting of Members

An annual meeting of the members shall be held in every year on a day in October or November or such other date as determined by the board of directors or the Executive Committee.

#### Section 5.2 Meetings of the Board of Directors

The annual meeting of the board of directors shall be held immediately after the annual meeting of the members without further notice other than this bylaw. The board of directors may provide by resolution the dates, times and places for holding of other regular meetings without other notice than such resolution.

#### Section 5.3 Special Meetings

The Chairman of the board of directors, the President or any five directors may call special meetings of the members or of the board of directors at any time.

#### Section 5.4 Notice of Meeting of Members

Written notice of any annual or special meeting of the members shall be sent to the members by mail or telegram at least five days but not more than sixty days before the meeting.

#### Section 5.5 Notice of Special Meeting of the Board of Directors

Written notice of any special meeting of the board of directors shall be sent to the directors by mail or telegram at least five days but not more than sixty days before the meeting.

#### Section 5.6 Notices

Notice of the meetings of the members or of the board of directors of the corporation shall be sent over the name of the chairman of the board of directors, the president or the secretary of the corporation, and shall specify the hour and place of the holding thereof.

#### Section 5.7 Quorum

Thirty percent of the members of the corporation shall constitute a quorum for the transaction of business at any meeting of members. One third of the directors then in office shall constitute a quorum for the transaction of business at any meeting of the board of directors. The act of the majority of the directors present at a meeting at which a quorum is present shall be the act of the board of directors, except as otherwise provided by law or these bylaws.

#### Section 5.8 Proxies

Each Member entitled to vote may be present in person or by proxy at meetings of members. No director may act by proxy at any meeting of the board of directors.

### ARTICLE VI: BOARD OF DIRECTORS

#### Section 6.1 Powers of the Board of Directors

The affairs of the corporation shall be managed by or under the direction of its board of directors.

## Section 6.2 Number of Directors

The number of directors shall be thirty-seven of whom twenty-four shall be elected by the members and twelve shall represent gas consumers. The gas consumer representatives of the board shall be elected in accordance with the provisions of these bylaws. The board shall also include the person who is elected president of the corporation, who shall be ex officio, a director.

## Section 6.3 Election of Directors by Members

The directors elected by the members shall include a minimum of four directors from each of the pipeline, distribution, producer and integrated segments of the natural gas industry and two directors from the Municipally owned distribution segment of the natural gas industry. The directors elected by the members shall elect the gas consumer representatives.

- (1) The pipeline segment shall be defined to consist of those members whose principal business is the interstate transportation of natural gas and the majority of whose gas sales and transportation are subject to regulation by the Federal Energy Regulatory Commission.
- (2) The distribution segment shall consist of those members whose principal business is the distribution of natural gas.
- (3) The producer segment consists of members whose principal business is the production of natural gas.
- (4) The integrated segments consist of members whose business span more than one of the pipeline, distribution or producer segments.
- (5) The municipal segment shall include municipally owned or other government or publicly owned gas distribution systems.

## Section 6.4 Tenure of Directors

- (1) Each of the directors shall hold office for a term of four years and until a successor has been elected and qualified. The directors of the corporation excluding the ex-officio directors shall be divided into four groups, as nearly equal in number as possible. Each year the directors of one group shall be elected by the members of the corporation for a four-year term expiring at the fourth annual meeting of the members of the corporation following the year of election. At the annual meeting of members in each succeeding year, the members shall elect successors to the directors whose terms expire at the time of such meeting. Notwithstanding the above, the directors elected in 2000 shall be elected to terms so that one-fourth of the directors have a term of one year, one-fourth has a term of two years, one-fourth has a term of three years and one-fourth has a term of four years.
- (2) Election of directors shall be by voice vote, ballot, or mail ballot.
- (3) The board of directors may fill any vacancy occurring in the board of directors among the directors elected by the members. A director so elected to fill a vacancy shall serve until the next annual election of directors by the members, at which time the members shall elect a director to serve the remainder, if any, of the term which is involved.



#### Section 6.5 Delegation

In addition to the powers conferred by statute and by the Articles of Incorporation, the board of directors shall have the power to delegate to officers of the corporation, or to committees, powers not otherwise forbidden by law to be so delegated.

#### Section 6.6 Removal of Directors

Any directors elected by the members may be removed at any meeting of the members by the affirmative vote of not less than two-thirds of the members present at the meeting, if such directors have been given timely notice of the proposed action before the meeting, and are given at the meeting an opportunity to be heard.

#### Section 6.7 Informal Actions by Directors

Any action that may be taken at a meeting of the board may be taken without a meeting if consent in writing, setting forth the action to be taken, shall be signed by all of the directors entitled to vote with respect to the subject matter thereof. Such consent shall have the same force and effect as a unanimous vote and may be stated as such in any articles or documents filed pursuant to law.

#### Section 6.8 Directors from Gas Consumers

- (1) In order to maintain the ratio provided for by Section 6.2, the directors elected by the members shall elect an appropriate number of directors from gas consumers.
- (2) An advisory committee, if any, established by the board of directors pursuant to Article VIII of these bylaws shall nominate the persons submitted for election as directors from gas consumers.
- (3) Any vacancy occurring in the board of directors among the directors from gas consumers may be filled by the directors elected by the members from candidates selected by an advisory committee and a director from gas consumers so elected to fill a vacancy shall serve the remainder of the unexpired term, if any, in which the vacancy occurred.

#### Section 6.9 Audits

The board of directors shall be responsible for causing annual audits to be made of the expenditures of the corporation.

#### Section 6.10 Executive Committee

The board of directors shall designate from its own membership an executive committee. It shall consist of twelve members and include the president who shall be an ex officio member. The membership of the executive committee shall be selected so that the committee includes at least two directors from each of the pipeline, distribution, integrated and producer segments. There shall also be at least one director from the municipal segment and two from gas consumers, one of which shall be a director from a large gas user. The chairman of the board of directors shall be the chairman of the executive committee. The executive committee may exercise all powers of the board of directors between meetings of the board except to the extent prohibited by law or by resolution of the board. A majority of the executive committee shall constitute a quorum at all meetings of the committee. Any question to be decided by the executive committee shall be decided by the vote of the majority present at a meeting, provided a quorum is present.

#### Section 6.14 Committees of Directors

The board of directors may designate and appoint one or more committees of directors, in addition to the executive committee, including compensation, audit, and nominating committees, each of which shall consist of two or more directors, which committees, to the extent provided in said resolution, shall have and exercise the authority of the board to the extent permitted by law and these bylaws. The designation of such committees and the delegation thereto of authority shall not operate to relieve the board of directors, or any individual director, of any responsibility imposed upon it or the director by law or these bylaws.

#### Section 6.15 Core Program Executive Committee

There shall be a core program executive committee of nine members to monitor the core program. The membership of the core program executive committee shall be selected so that the committee includes four directors from the directors elected by the members, four directors from the directors from gas consumer representatives and the corporation's president who shall be ex officio a member of the committee. The chairman of the board of directors shall select the members of the committee and appoint its chairman. A majority of the core program executive committee shall constitute a quorum at all meetings of the committee. Any question to be decided by the core program executive committee shall be decided by the vote of the majority present at a meeting, provided a quorum is present.

### ARTICLE VII: OFFICERS

#### Section 7.1 Officers

The officers of the corporation shall be a chair, a vice chair, a president, a secretary, a treasurer, and such vice presidents and additional administrative officers deemed necessary or advisable by the board of directors. Any vice president or additional administrative officer elected by the board of directors shall have the titles and authority to perform the duties prescribed by the president with the approval of the board of directors. The same person may hold two or more offices, except that the person who is president shall not hold another office.

#### Section 7.2 Election, Terms of Office and Compensation

The officers of the corporation shall be elected each year at the regular annual meeting of the board of directors. If the board of directors deems it necessary or advisable to elect additional officers between annual meetings of the board of directors, or to change any officer's title or duties, such elections can be held or changes made at any regular or special meeting of the board of directors. The term of office of officers elected between annual meetings shall expire at the time of the next regular annual meeting of the board of directors. Each officer shall hold office until that officer's successor has been duly elected and qualified, subject to Section 7.3. The board of directors shall establish the compensation of all officers.

### Section 7.3 Removal of Officers

The board of directors may remove any officer elected by the board of directors whenever, in its judgment, the best interests of the corporation would be served thereby. The removal of such officer shall be without prejudice to the contract rights, if any, of the person so removed.

### Section 7.4 Vacancies in Elective Offices

A vacancy in any elective office, because of death, resignation, removal, disqualification or otherwise may be filled by the board of directors for the unexpired portion of the term.

### Section 7.5 Chair

The chair shall preside at all meetings of members and directors and shall perform such other duties and have such other powers as the board of directors may from time to time prescribe.

### Section 7.6 Vice-chair

The vice-chair shall perform the duties and exercise the powers of the chair in the absence or disability of the chair, and shall perform such other duties and have such other powers as the board of directors may from time to time prescribe.

### Section 7.7 President

The president shall provide leadership for the corporation and shall represent the corporation in relations with the gas industry, governmental agencies such as the Department of Energy and other research and regulatory agencies, and the general public. The president shall be the chief executive officer of the corporation and shall in general supervise all of its business officers. In the absence or disability of the chairman, the president shall perform the duties and exercise the powers of the chairman. The president may sign, with the secretary or any other officer of the corporation authorized by the board of directors, any deeds, mortgages, bonds, contracts or other instruments. The president shall also perform such other duties as may be prescribed by the board of directors.

### Section 7.8 Secretary

The secretary shall keep the minutes of the meetings of the members and of the board of directors in books provided for that purpose, insure that all notices are duly given in accordance with the provisions of these bylaws or as required by law, be custodian of the corporate records and of the seal of the corporation, keep a register of all members and their authorized representatives, and in general perform all duties incident to the office of secretary and other duties as may be prescribed by these bylaws, the board of directors, and the president.

### Section 7.9 Treasurer

The treasurer shall have charge and custody of and be responsible for all funds and securities of the corporation, receive and give receipts for moneys due and payable from any source whatsoever and deposit all such moneys in the name of the corporation in banks or other depositories, and in general perform all duties incident to the office of treasurer and such other duties as may be prescribed by the board of directors or the president. If required by the board of directors, the treasurer shall give a bond for the faithful performance of the treasurer's duties in such sum and with such sureties as the board of directors shall determine.

## ARTICLE VIII: ADVISORY COMMITTEES

The board of directors may establish by resolution one or more advisory committees to provide the board with input on the viewpoints of a broad spectrum of outside and public interests. These interests may include but are not limited to consumer, regulatory, municipally-owned or other publicly-owned gas systems, scientific, engineering, environmental, industry, and labor interests. The number, qualifications, manner of appointment, terms of office, selection of committee chairmen, meeting times and places, duties and termination of such committees shall be set forth in such resolutions. Vacancies in the membership of any of the foregoing committees shall be filled by appointments made in the same manner as provided for the appointment of committee members. A majority of the members of any advisory committees shall constitute a quorum, and the act of a majority of the members present at a meeting at which a quorum is present shall be the act of the committee.

## ARTICLE IX: PROVISION OF SERVICES

### Section 9.1 Fees

Fees charged for research and education shall be on a sliding scale based upon the contracting party's ability to pay. For purposes of this paragraph, a party's ability to pay shall be that of the sponsoring organization rather than a particular individual where the individual is acting on behalf of the organization. Where an individual seeks research or education on his or her own behalf, ability to pay shall be determined by reference to that individual's ability to pay.

### Section 9.2 Benefits

All benefits of the corporation shall be made available to the public generally, members and non-members alike. Subject to Section 9.1, education services may be made available to members at a reduced rate.

### Section 9.3 Debts

Debts incurred for provision of all corporate services shall be forgiven where a legitimate change of circumstances renders a party unable to pay said debts. Where a legitimate change in circumstances renders a party able to pay a reduced fee, said debt shall be reduced accordingly.

## ARTICLE X: INDEMNIFICATION

### Section 10.1

The corporation shall indemnify each of its directors or officers or former directors or former officers or any person who may have served at its request as a director, directors or officer of another corporation in which it owns shares of capital stock or of which it is a creditor, against expenses actually and necessarily incurred by such person in connection with the defense or settlement of any action, suit or proceeding, civil or criminal, in which such person is made a party by reason of being or having been such director or officer, except in relation to matters as to which such person shall be adjudged in such action, suit or proceeding to be liable for gross negligence or willful misconduct in the performance of such person's duty to the corporation and to such matters as shall be settled by agreement predicated on the existence of such liability. Absent a specific

judicial finding of gross negligence or willful misconduct in the performance of a duty to the corporation, a conviction or judgment (whether based on a plea of guilty or nolo contendere or its equivalent, or after trial) in a criminal action, suit or proceeding shall not be deemed to constitute on its own an adjudication of liability for gross negligence or misconduct in the performance of duty to the corporation if such director or officer acted in good faith in what that person considered to be the best interests of the corporation and with no reasonable cause to believe that the action was illegal. The corporation shall have the power to make any other indemnification allowed by law as shall be authorized by the board of directors.

#### Section 10.2

The indemnification provided by Section 10.1 shall not be deemed exclusive of any other rights to which a person seeking indemnification may be entitled under any bylaw agreement, vote of members or disinterested directors or otherwise, both as to action in an official capacity and as to action in another capacity while holding such office, and shall continue as to a person who has ceased to be a director, officer, employee or agent and shall inure to the benefit of the heirs, executors and administrators of such a person.

#### Section 10.3

The board of directors shall have the power to purchase insurance to provide coverage for the indemnification required or authorized by this Article.

### ARTICLE XI: AMENDMENTS

These bylaws may be altered, amended or repealed only by the board of directors, by resolution adopted by a majority vote of the directors then in office, provided the proposed amendment is set forth in the notice of the meeting of directors.

#### End of Bylaws